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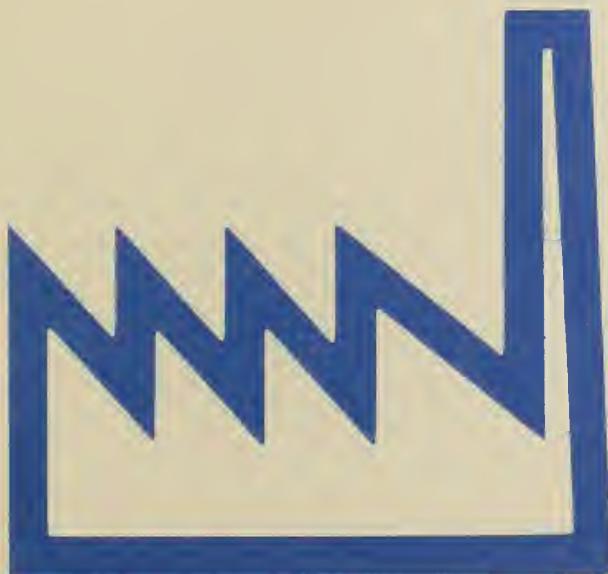
Census of Manufactures

MC82-I-22B

INDUSTRY SERIES

Knitting Mills

Industries 2251, 2252, 2253, 2254, 2257, 2258, and 2259



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The publications
from the 1982 Economic and
Agriculture Censuses are dedicated
to the memory of Shirley Kallek,
Associate Director for Economic Fields.
During her career at the Bureau of the
Census (1955 to 1983), she continually
directed efforts to improve
the timeliness and accuracy of
economic statistics.

1982 Census of Manufactures

MC82-I-22B

INDUSTRY SERIES

Knitting Mills

- 2251 Women's Hosiery, Except Socks
- 2252 Hosiery, N.E.C.
- 2253 Knit Outerwear Mills
- 2254 Knit Underwear Mills
- 2257 Circular Knit Fabric Mills
- 2258 Warp Knit Fabric Mills
- 2259 Knitting Mills, N.E.C.

Issued March 1985



U.S. Department of Commerce
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INDUSTRY DIVISION
Gaylord E. Worden, Chief

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INTRODUCTION

ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was again taken for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was obtained first in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was taken first for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service industries was broadened from "selected services" to "all services, except religious organizations and private households." A total of 41 additional four-digit standard industrial classifications' (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was introduced first in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the

Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are disseminated widely by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-00500176-0.

CENSUS OF MANUFACTURES

General

The 1982 Census of Manufactures is the 31st census of manufactures of the United States. For 1982, it was conducted jointly with the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses.

This report, from the 1982 Census of Manufactures, is one of a series of 82 industry reports, each of which provides statistics for groups of related industries. Additional separate reports will be issued for each State and on special subjects, such as size of establishments, legal form of organization, and fuels and electric energy consumed.

These separate reports will subsequently be issued as portions of the final census volumes. Volume I, Subject Statistics, will show comparative statistics for industries, States, and standard metropolitan statistical areas. It also will show selected subjects, such as concentration ratios in manufacturing, selected materials consumed, manufacturing activity in government establishments, and water use in manufacturing. Volume II, Industry Statistics, will be a consolidation of reports for the 82 groups of industries showing the same information that is shown in this report. Volume III, Geographic Area Statistics, will contain establishment-based data (number of establishments, employment, payroll, value added by manufacture, and capital expenditures) for each State and its important standard metropolitan statistical areas, counties, and places, by industry groups and important individual industries. Totals for "all manufacturing" will be shown for counties and places with more than 450 manufacturing employees. The introduction to the final volumes will discuss, at greater length, many of the subjects described in this introduction. For example, the volume text will discuss the relationship of value added by manufacture to National income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

Scope of Census and Definition of Manufacturing Industries

The 1982 Census of Manufactures covers all establishments employing one person or more primarily engaged in manufacturing as defined in the 1972 Standard Industrial Classification (SIC) Manual and its 1977 Supplement.¹ This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Office of Management and Budget. This system of classification is in general use among government agencies as well as organizations outside the government.

The SIC manual defines manufacturing as the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use power-driven machines and materials handling equipment.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-00500176-0.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for the trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is based on a scientifically selected sample of approximately 55,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply detailed information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services.

Establishment Basis of Reporting

The census of manufactures and the annual survey of manufactures are conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1982, as in earlier years, a minimum size limit was set for including establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

Manufacturing Universe and Census Report Forms

The 1982 Census of Manufactures universe includes approximately 345,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in this publication are described below.

1. Small Single-Unit Companies Not Sent a Report Form

In the 1982 Census of Manufactures, approximately 140,000 small single-establishment companies were excused from filing reports. Selection of these small

establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of other Federal agencies. The cutoffs were selected so that these administrative records cases would account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed report forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative record cases were given only a two- or three-digit SIC group. For the 1982 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassifications have no significant effect on the statistics other than on the number of establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments Sent a Report Form

The 205,000 establishments covered in the mail canvass were divided into three groups:

a. **ASM sample establishments**—This group consisted of approximately 55,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see appendix, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll,

and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. Results of the ASM inquiries are included in tables 3c and 3d of this report.

The census part of the report form is one of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the approximately 450 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries, as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space was also provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

b. **Large and medium establishments (non-ASM)**—Approximately 100,000 establishments were included in this group. A variable cutoff, based on administrative records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive one of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. **Small single-unit establishments (non-ASM)**—This group consisted of approximately 50,000 establishments. For those industries where application of the variable cutoff for administrative records cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received one of the approximately 80 versions of the short form, which requested summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same

data were collected on the short as well as the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the values of the n.s.k. categories.

Auxiliaries

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 10,000 separately operated auxiliaries are included in the paperbound geographic area series, the bound volumes of the census of manufactures, and in a report issued as part of the 1982 Enterprise Statistics survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two or more establishments. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting, tax accounting, company sales and profit reports, and personnel accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in one of approximately 450 manufacturing industries in accordance with the industry definitions in the SIC system. Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of plants must be significant in terms of its number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively became narrower with successive additions of numerical digits. There are 20 major groups (two-digit SIC), 143 industry groups (three-digit SIC), and approximately 450

industries (four-digit SIC). The product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 1,500 classes of products, identified by a five-digit code, and about 11,000 products, identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in making those products. For example, establishments engaged in blast furnace operations, refining of nonferrous metals from ore, or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for two successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see appendix, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is true particularly for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in tables 6a through 6c represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the

composition of the industry's output shown in table 5b should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios, which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfer of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

Value of Shipments for the Industry Compared With Value of Product Shipments

This industry report shows value of shipments data for industries and products. In tables 1a through 5a, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Product shipments shown in table 6a represent the total value of shipments of products classified as primary to an industry that were shipped by all manufacturing establishments regardless of their industry classification.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this item may be given even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line has been suppressed. However, the suppressed data are included in higher level totals. Additional disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

MICROFICHE AND COMPUTER TAPES

All the data in this report are available on microfiche. Selected data are also available on computer tape.

In addition to selected published data being on computer tape, one major data series, the location of manufacturing plants, will be available only on computer tape. This series presents the number of establishments by employment size class by four-digit SIC industry codes for States, counties, and places of 2,500 inhabitants or more. These data are available for both State and county by industry, and State and place by industry.

Microfiche reports are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Computer tapes are sold by the Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1982 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- pt. Part.
- r Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

Users' Guide for Locating Statistics

[For explanation of terms, see appendixes]

	Item	Four-digit industry statistics		
		Historical	Operating ratios	By geographic area
1	Number of companies.....	1a		
2	Number of manufacturing establishments	1a		2
	Employment and payroll:			
3	Number of employees	1a	1b	2
4	Payroll	1a	1b	2
5	Supplemental labor costs.....			
6	Production workers	1a	1b	2
7	Production-worker hours	1a	1b	2
8	Production-worker wages	1a	1b	2
	Shipments, cost of materials, and value added:			
9	Value of shipments (four-digit).....	1a	1b	2
10	Product class shipments (five-digit).....			
11	Product shipments (seven-digit)			
12	Value added by manufacture	1a	1b	2
13	Cost of materials	1a	1b	2
14	Fuels and electric energy.....			
15	Materials consumed by kind			
	Inventories:			
16	Total, end of year	1a		
17	By method of valuation			
18	By stage of fabrication			
	Capital expenditures, assets, rental payments, and purchased services:			
19	New capital expenditures	1a		2
20	Used plant and equipment expenditures			
21	Gross assets			
22	Depreciation			
23	Retirements of buildings and machinery.....			
24	Rental payments			
25	Purchased services			
	Ratios:			
26	Specialization	1a		
27	Coverage	1a		

*Number of companies with shipments of over \$100 thousand.

**Detailed information shown.

In This Report by Table Number

Four-digit industry statistics – Con.				Five-digit product class and seven-digit product statistics				
Summary and supplemental	By employment size	By industry and product class specialization	Materials consumed by kind	Industry-product analysis	Product shipments	Product class by geographic area	Historical product class	
3a **3a	4	5a			*6a			1 2
3a 3a **3d **3a **3a 3a	4 4 4 4 4	5a 5a 5a 5a 5a						3 4 5 6 7 8
3a	4	5a		5b, 5c 5b, 5c	6a 6a	6b	6c	9 10 11
3a **3a 3a, 3d	4 4	5a 5a	7		:			12 13 14 15
3b, 3c 3b, 3c 3b	4							16 17 18
**3a, **3d **3a, **3d **3d **3d **3d **3d **3d **3d	4	5a						19 20 21 22 23 24 25
3a 3a				5b 5b				26 27

Knitting Mills

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DESCRIPTION OF INDUSTRIES AND SUMMARY OF FINDINGS

KNITTING MILLS

This report shows 1982 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2251	Women's Hosiery, Except Socks
2252	Hosiery, N.E.C.
2253	Knit Outerwear Mills
2254	Knit Underwear Mills
2257	Circular Knit Fabric Mills
2258	Wrap Knit Fabric Mills
2259	Knitting Mills, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a-1) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification (SIC) Manual and its 1977 supplement.¹

INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS

This industry comprises establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full-length and knee-length hosiery, both seamless and full-fashioned, and pantyhose.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. Stock No. 003-005-00176-0.

In the 1982 Census of Manufactures, Industry 2251, Women's Hosiery, Except Socks, recorded employment of 30.2 thousand. The total value of shipments for establishments classified in this industry was \$1.4 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 14 percent above the 26.6 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, Tennessee, South Carolina, and Mississippi, accounting for approximately 90 percent of the industry's 1982 employment. Data for Tennessee, South Carolina, and Mississippi have been withheld to avoid disclosing data for individual companies. These same States were the leaders in 1977, when they accounted for approximately 85 percent of the industry's employment.

Compared with 1981, employment increased 2 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2251 shipped \$1.3 billion of products primary to the industry, \$70 million of secondary products, and had \$46 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 95 percent (specialization ratio). In 1977, this specialization ratio was 91 percent.

Establishments in this industry also accounted for 91 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 95 percent. The products primary to industry 2251, no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$1.4 billion in current prices.

The total cost of materials and services used by establishments classified in the women's hosiery, except socks, industry amounted to \$637 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2252, HOSIERY, N.E.C.

This industry comprises establishments primarily engaged in knitting, dyeing, or finishing hosiery, except women's and

misses' full-length and knee-length seamless and full-fashioned hosiery and pantyhose.

In the 1982 Census of Manufactures, Industry 2252, Hosiery, N.E.C., recorded employment of 32.6 thousand. The total value of shipments for establishments classified in this industry was \$1.4 billion.

The value of shipment figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 1 percent above the 32.2 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, Tennessee, Alabama, and Georgia, accounting for approximately 86 percent of the industry's 1982 employment. These same States were the leaders in 1977, although there has been some shift in the relative importance of individual States.

Compared with 1981, employment increased 6 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2252 shipped \$1.3 billion of products primary to the industry, \$109 million of secondary products, and had \$75 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 92 percent (specialization ratio). In 1977, this specialization ratio was 96 percent.

Establishments in this industry also accounted for 95 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio also was 96 percent. The products primary to industry 2252, no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$1.3 billion in current prices.

The total cost of materials and services used by establishments classified in the hosiery, n.e.c., industry amounted to \$832 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

INDUSTRY 2253, KNIT OUTERWEAR MILLS

This industry comprises establishments primarily engaged in knitting outerwear from yarn, or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are included in this industry. Establishments primarily engaged in knitting gloves and mittens are classified in Industry 2259, Knitting Mills, N.E.C., and those manufacturing outerwear

from purchased knit fabric in Major Group 23, Apparel and Other Textile Products.

In the 1982 Census of Manufactures, Industry 2253, Knit Outerwear Mills, recorded employment of 66.8 thousand. The total value of shipments for establishments classified in this industry was \$3.2 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 9 percent below the 73.0 thousand reported in 1977. The leading States in employment in 1982 were Pennsylvania, New York, North Carolina, and Virginia, accounting for approximately 60 percent of the industry's 1982 employment. Data for Virginia have been withheld to avoid disclosing data for individual companies. These same States were the leaders in 1977, when they accounted for approximately 62 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Compared with 1981, employment increased 3 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2253 shipped \$3.0 billion of products primary to the industry, \$163 million of secondary products, and had \$47 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 95 percent (specialization ratio). In 1977, this specialization ratio was 90 percent.

Establishments in this industry also accounted for 53 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 53 percent. The products primary to industry 2253, no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$5.6 billion in current prices.

Certain products primary to industry 2253 are also primary to Major Group 23, Apparel and Related Products. Table 6a-1 shows the data on a combined "wherever-made" basis to provide the product totals regardless of the industry classification of the establishment from which they were shipped. Table 6a-2 provides a breakdown of the products showing the industry in which the products are primary.

The total cost of materials and services used by establishments classified in the knit outerwear mills industry amounted to \$1.5 billion in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 17 percent of total value of shipments.

INDUSTRY 2254, KNIT UNDERWEAR MILLS

This industry comprises establishments primarily engaged in knitting underwear and nightwear from yarn, or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in the manufacture of underwear and nightwear from purchased knit fabric are classified in Major Group 23, Apparel and Other Textile Products.

In the 1982 Census of Manufactures, Industry 2254, Knit Underwear Mills, recorded employment of 22.3 thousand. The total value of shipments for establishments classified in this industry was \$830 million.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 12 percent below the 25.2 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, Kentucky, Pennsylvania, and Tennessee, accounting for approximately 75 percent of the industry's 1982 employment. Data for Kentucky and Tennessee have been withheld to avoid disclosing data for individual companies. These same States were the leaders in 1977, when they accounted for approximately 65 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Compared with 1981, employment decreased 11 percent. The 1981 data are based on the Bureau's annual survey of manufacturers (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2254 shipped \$715 million of products primary to the industry, \$102 million of secondary products, and had \$14 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 88 percent (specialization ratio). In 1977, this specialization ratio was 80 percent.

Establishments in this industry also accounted for 93 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 86 percent. The products primary to industry 2254, no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$767 million in current prices.

The total cost of materials and services used by establishments classified in the knit outerwear mills industry amounted to \$370 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in knitting circular (tubular) fabric, or in dyeing or finishing circular (tubular) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing warp fabric are classified in Industry 2258, Warp Knit Fabric Mills.

In the 1982 Census of Manufactures, Industry 2257, Circular Knit Fabric Mills, recorded employment of 31.1 thousand. The total value of shipments for establishments classified in this industry was \$2.5 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 40 percent below the 51.8 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, New York, Pennsylvania, and Massachusetts, accounting for approximately 65 percent of the industry's 1982 employment. This represents a shift from 1977, when North Carolina, New York, South Carolina, and Pennsylvania accounted for approximately 65 percent of the industry's employment.

Compared with 1981, employment decreased 24 percent. The 1981 data are based on the Bureau's annual survey of manufacturers (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2257 shipped \$2.3 billion of products primary to the industry, \$203 million of secondary products, and had \$12 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 92 percent (specialization ratio). In 1977, this specialization ratio was 90 percent.

Establishments in this industry also accounted for 93 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 88 percent. The products primary to industry 2257 no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$2.5 billion in current prices.

The total cost of materials and services used by establishments classified in the circular knit fabric mills industry amounted to \$1.7 billion in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 21 percent of total value of shipments.

INDUSTRY 2258, WARP KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in knitting warp (flat) fabric, or in dyeing or finishing warp (flat) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing circular (tubular) fabric are classified in Industry 2257, Circular Knit Fabric Mills.

In the 1982 Census of Manufactures, Industry 2258, Warp Knit Fabric Mills, recorded employment of 19.0 thousand. The total value of shipments for establishments classified in this industry was \$1.5 billion.

The value of shipments figure above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 20 percent below the 23.7 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, New York, Connecticut, and Pennsylvania, accounting for approximately 75 percent of the industry's 1982 employment. Data for Connecticut have been withheld to avoid disclosing data for individual companies. This represents a shift from 1977 when North Carolina, Pennsylvania, New York, and New Jersey accounted for approximately 70 percent of the industry's employment.

Compared with 1981, employment decreased 12 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2258 shipped \$1.4 billion of products primary to the industry, \$44 million of secondary products, and had \$5 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 97 percent (specialization ratio). In 1977, this specialization ratio was 93 percent.

Establishments in this industry also accounted for 90 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 83 percent. The products primary to industry 2258, no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$1.6 billion in current prices.

The total cost of materials and services used by establishments classified in the warp knit fabric mills industry amounted to \$904 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

INDUSTRY 2259, KNITTING MILLS, N.E.C.

This industry comprises establishments primarily engaged in knitting gloves and other articles, not elsewhere classified. Establishments primarily engaged in manufacturing woven or knit fabric gloves and mittens from purchased fabric are classified in Industry 2381, Fabric Dress and Work Gloves.

In the 1982 Census of Manufactures, Industry 2259, Knitting Mills, N.E.C., recorded employment of 2.9 thousand. The total value of shipments for establishments classified in this industry was \$115 million.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 15 percent below the 3.4 thousand reported in 1977. The leading States in employment in 1982 were New Jersey, New York, and North Carolina, accounting for approximately 75 percent of the industry's 1982 employment. Data for New Jersey have been withheld to avoid disclosing data for individual companies. These same States were the leaders in 1977, when they accounted for approximately 65 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Compared with 1981, employment decreased 9 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2259 shipped \$109 million of products primary to the industry, \$3.3 million of secondary products, and had \$2.8 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 97 percent (specialization ratio). In 1977, this specialization ratio also was 97 percent.

Establishments in this industry also accounted for 81 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 81 percent. The products primary to industry 2259, no matter in what industry they were produced, appear in table 6a-1 and aggregate to \$134 million in current prices.

The total cost of materials and services used by establishments classified in the knitting mills, n.e.c., industry amounted to \$58 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 23 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1982 and Earlier Years

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year ¹	Com- panies ² (no.)	All establishments ³		All employees		Production workers			Value added by manufac- ture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures ⁴ (million dollars)	Ratios		
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Spec- cial- ization (per- cent)	Cover- age (per- cent)	
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS															
1982 Census-----	179	206	118	30.2	311.1	26.7	49.6	241.5	777.4	636.8	1 411.3	26.0	159.9	95	91
1981 ASM-----	(NA)	(NA)	29.6	289.5	25.4	49.4	224.3	708.9	605.7	1 304.5	22.6	187.3	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	30.1	277.8	26.3	50.1	221.1	654.6	570.1	1 218.6	27.8	175.0	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	31.2	266.5	27.4	52.2	213.1	638.7	534.2	1 162.2	26.6	168.8	(NA)	(NA)	
1978 ASM-----	(NA)	(NA)	28.0	224.2	24.7	45.0	178.7	520.9	476.9	995.7	23.3	133.4	(NA)	(NA)	
1977 Census-----	176	200	119	26.6	191.3	23.8	44.1	156.6	457.0	415.5	871.2	16.6	122.9	91	95
1976 ASM-----	(NA)	(NA)	26.4	179.3	23.6	43.1	145.2	362.4	356.4	713.5	13.1	113.1	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	30.5	185.9	26.8	47.2	148.1	334.0	402.9	762.5	15.9	119.8	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	34.7	194.4	30.3	52.7	152.9	326.2	435.6	781.7	13.7	139.3	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	46.0	234.6	40.4	70.3	188.3	381.0	501.2	886.1	17.8	172.7	(NA)	(NA)	
1972 Census-----	256	312	217	49.5	247.4	43.5	80.0	199.0	438.8	533.3	984.7	15.9	175.8	94	97
1971 ASM-----	(NA)	(NA)	56.4	24.2	49.8	87.8	213.0	491.6	589.8	1 112.6	24.5	206.2	(NA)	(NA)	
1970 ASM-----	(NA)	(NA)	67.3	307.6	60.5	107.1	253.0	600.6	772.4	1 367.9	47.0	237.6	(NA)	(NA)	
1969 ASM-----	(NA)	(NA)	69.4	310.6	62.6	118.8	258.6	677.9	674.6	1 313.4	50.0	222.9	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	64.5	272.5	58.3	110.1	230.2	510.7	532.5	1 025.6	35.0	166.6	(NA)	(NA)	
1967 Census-----	302	355	257	57.9	230.0	52.4	99.2	190.9	413.0	427.8	835.0	27.5	141.2	97	95
INDUSTRY 2252, HOSIERY, N.E.C.															
1982 Census-----	376	420	263	32.6	326.5	28.8	51.2	258.1	617.3	832.2	1 443.4	31.4	199.2	92	95
1981 ASM-----	(NA)	(NA)	30.9	303.6	27.0	51.7	235.1	537.4	771.2	1 294.4	32.7	168.6	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	32.3	290.4	28.1	53.4	226.8	495.1	708.9	1 192.9	22.1	161.6	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	31.3	260.8	27.5	52.7	207.9	436.4	625.4	1 061.3	15.5	147.6	(NA)	(NA)	
1978 ASM-----	(NA)	(NA)	32.9	245.8	29.7	55.6	201.9	470.1	581.1	1 031.2	15.2	150.2	(NA)	(NA)	
1977 Census-----	382	415	257	32.2	218.7	29.0	52.6	179.4	401.5	525.1	921.3	14.8	127.3	96	96
1976 ASM-----	(NA)	(NA)	30.2	193.4	26.8	47.6	155.5	357.8	445.4	798.3	14.5	114.4	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	29.4	169.7	26.3	44.0	136.5	350.7	360.2	720.6	9.9	100.5	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	30.0	165.9	26.9	47.0	128.7	281.6	352.6	631.5	12.1	106.1	(NA)	(NA)	
1973 ASM ⁶ -----	(NA)	(NA)	33.4	170.8	30.0	53.0	138.2	305.2	342.2	640.9	18.0	105.9	(NA)	(NA)	
1972 Census-----	375	415	269	32.6	159.7	29.3	53.8	128.5	295.2	309.7	600.6	12.5	91.5	95	94
1971 ASM-----	(NA)	(NA)	33.5	150.7	30.1	53.4	120.0	275.4	322.8	604.6	17.5	90.5	(NA)	(NA)	
1970 ASM ⁶ -----	(NA)	(NA)	35.4	152.3	32.2	56.0	123.3	257.2	316.9	574.6	18.2	96.0	(NA)	(NA)	
1969 ASM ⁶ -----	(NA)	(NA)	37.5	153.9	34.2	61.7	126.2	275.1	358.8	632.4	17.1	107.7	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	37.1	143.8	34.0	61.5	118.5	247.3	337.8	582.1	10.4	95.0	(NA)	(NA)	
1967 Census-----	423	448	290	39.0	136.9	35.8	64.5	113.2	230.7	322.2	550.1	9.4	92.2	90	95
INDUSTRY 2253, KNIT OUTERWEAR MILLS															
1982 Census-----	893	923	482	66.8	741.4	55.9	102.0	539.8	1 704.8	1 476.8	3 182.4	53.5	533.4	95	53
1981 ASM-----	(NA)	(NA)	64.7	682.3	55.3	100.9	509.4	1 440.7	1 376.4	2 807.8	50.0	396.2	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	67.1	637.4	57.9	104.0	479.6	1 339.1	1 263.3	2 571.7	48.5	371.8	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	61.9	548.1	53.4	95.6	405.2	1 096.0	1 125.1	2 220.8	35.5	345.4	(NA)	(NA)	
1978 ASM-----	(NA)	(NA)	72.1	608.5	62.8	112.5	454.1	1 202.8	1 153.5	2 333.3	44.2	423.8	(NA)	(NA)	
1977 Census-----	903	953	551	73.0	582.0	62.7	114.0	422.0	1 159.5	1 207.1	2 335.9	49.9	393.4	90	53
1976 ASM-----	(NA)	(NA)	69.3	525.7	59.4	108.9	380.3	994.4	1 144.8	2 140.7	35.2	328.2	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	65.4	483.3	55.6	103.2	349.5	953.4	1 012.8	1 995.7	46.7	315.8	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	76.1	513.7	65.7	120.8	373.1	996.7	1 069.4	2 047.3	41.9	351.2	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	80.2	491.7	70.0	132.2	371.1	937.5	989.0	1 914.3	54.0	316.1	(NA)	(NA)	
1972 Census-----	882	917	547	74.4	430.4	65.1	122.5	324.1	799.5	919.0	1 703.8	45.9	273.2	92	62
1971 ASM-----	(NA)	(NA)	73.9	394.9	65.2	119.1	297.3	643.7	711.6	1 341.6	47.9	225.7	(NA)	(NA)	
1970 ASM-----	(NA)	(NA)	73.4	362.2	64.2	118.0	271.8	582.6	620.4	1 226.1	37.8	185.7	(NA)	(NA)	
1969 ASM-----	(NA)	(NA)	80.6	409.2	70.2	132.5	307.7	667.0	733.7	1 395.9	41.4	206.5	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	80.9	403.2	70.3	135.1	305.8	681.9	756.9	1 407.6	28.2	208.8	(NA)	(NA)	
1967 Census-----	1 156	1 179	650	73.8	343.5	64.2	122.3	261.4	604.9	685.0	1 288.0	28.5	176.6	93	65
INDUSTRY 2254, KNIT UNDERWEAR MILLS															
1982 Census-----	72	84	61	22.3	232.3	20.0	35.3	191.7	446.2	369.7	829.9	9.3	167.4	88	93
1981 ASM-----	(NA)	(NA)	25.0	247.3	22.5	40.0	205.9	385.1	363.6	841.2	17.2	218.0	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	25.9	245.0	23.6	43.1	204.7	392.2	458.0	863.5	21.4	197.5	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	28.2	228.3	25.3	45.4	186.5	405.0	412.5	802.2	52.7	189.7	(NA)	(NA)	
1978 ASM-----	(NA)	(NA)	27.5	209.4	24.9	46.2	177.5	409.8	381.1	747.6	21.9	170.4	(NA)	(NA)	
1977 Census-----	80	92	74	25.2	175.2	23.4	42.7	151.8	305.7	353.1	648.9	14.5	131.3	80	86
1976 ASM-----	(NA)	(NA)	27.6	178.6	25.4	46.3	155.4	288.2	396.7	663.9	9.7	141.1	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	25.6	158.0	23.5	40.6	130.8	275.8	352.8	637.9	19.3	117.2	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	25.0	148.7	22.9	41.1	124.2	278.9	359.5	629.7	9.5	109.2	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	26.5	143.1	24.2	43.1	120.0	257.1	311.3	559.4	6.1	100.8	(NA)	(NA)	
1972 Census-----	74	87	74	26.0	134.6	23.8	43.5	111.6	251.5	290.2	544.6	7.0	83.6	90	94
1971 ASM-----	(NA)	(NA)	25.3	125.0	22.6	41.3	97.8	196.1	247.5	449.9	5.7	93.5	(NA)	(NA)	
1970 ASM ⁶ -----	(NA)	(NA)	25.0	117.6	21.6	38.3	87.7	179.6	250.5	437.3	6.3	104.4	(NA)	(NA)	
1969 ASM-----	(NA)	(NA)	32.0	137.0	28.4	51.6	108.0	219.3	287.9	501.4	11.4	112.8	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	32.0	132.1	28.7	55.1	105.8	230.2	278.9	497.9	7.5	121.4	(NA)	(NA)	
1967 Census-----	99	113	97	30.7	115.2	27.2	49.3	87.7	201.4	250.7	445.3	7.2	101.0	85	91
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS⁷															
1982 Census-----	384	422	222	31.1	420.9	25.7	50.9	309.1	850.4	1 669.0	2 538.8	68.8	254.8	92	93
1981 ASM-----	(NA)	(NA)	40.7	503.2	34.5	68.0	370.5	967.4	1 892.1	2 874.5	106.5	284.6	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	44.4	524.4	37.8	75.2	393.5	1 054.8	2 003.1	3 049.4	129.3	322.5	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	47.9	523.8	40.6	79.9	392.3	1 073.6	1 993.5	3 071.7	585.6	316.7	(NA)	(NA)	
1978 ASM															

Table 1a. Historical Statistics for the Industry: 1982 and Earlier Years—Con.

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year ¹	All establishments ³		All employees		Production workers			Value added by manufacture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories ⁴ (million dollars)	Ratios		
	Companies ² (no.)	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						Specialization (percent)	Coverage (percent)	
INDUSTRY 2258, WARP KNIT FABRIC MILLS															
1982 Census-----	186	207	130	19.0	261.1	15.2	29.7	187.2	533.9	904.0	1 465.8	44.0	182.4	97	90
1981 ASM-----	(NA)	(NA)	(NA)	21.5	283.7	18.3	37.4	215.0	637.6	1 117.2	1 758.6	67.4	225.0	(NA)	(NA)
1980 ASM-----	(NA)	(NA)	(NA)	22.7	277.7	19.2	39.0	209.7	636.6	1 171.8	1 785.1	41.9	232.7	(NA)	(NA)
1979 ASM-----	(NA)	(NA)	(NA)	24.4	264.0	20.6	42.5	200.6	558.4	1 186.7	1 745.8	41.4	228.3	(NA)	(NA)
1978 ASM-----	(NA)	(NA)	(NA)	23.0	238.3	19.4	40.1	182.7	538.3	1 125.0	1 642.5	34.7	228.1	(NA)	(NA)
1977 Census-----	215	235	153	23.7	226.7	20.0	41.9	169.8	444.4	963.9	1 407.2	56.3	209.0	93	83
1976 ASM-----	(NA)	(NA)	(NA)	21.3	198.6	18.0	36.6	145.3	423.5	971.6	1 384.8	42.0	194.5	(NA)	(NA)
1975 ASM-----	(NA)	(NA)	(NA)	19.2	178.7	15.9	31.8	125.6	344.9	907.6	1 264.8	33.6	185.5	(NA)	(NA)
1974 ASM-----	(NA)	(NA)	(NA)	21.2	178.1	17.6	35.8	129.1	371.0	880.5	1 251.4	38.3	187.7	(NA)	(NA)
1973 ASM ⁶ -----	(NA)	(NA)	(NA)	24.2	177.4	20.0	40.9	132.3	372.1	774.0	1 138.9	40.1	195.8	(NA)	(NA)
1972 Census-----	174	203	155	22.0	159.2	18.4	39.2	120.5	317.8	694.2	987.7	48.2	166.4	90	95
INDUSTRY 2259, KNITTING MILLS, N.E.C.															
1982 Census-----	71	72	29	2.9	33.8	2.5	4.7	25.7	55.4	57.5	114.5	1.5	27.3	97	81
1981 ASM-----	(NA)	(NA)	(NA)	3.2	29.6	3.0	6.6	24.2	32.2	57.0	100.5	1.6	19.9	(NA)	(NA)
1980 ASM-----	(NA)	(NA)	(NA)	3.6	30.7	3.3	6.9	25.8	44.9	56.0	115.1	2.6	19.8	(NA)	(NA)
1979 ASM-----	(NA)	(NA)	(NA)	4.2	32.4	3.9	8.0	26.6	55.3	61.3	116.2	3.3	21.0	(NA)	(NA)
1978 ASM-----	(NA)	(NA)	(NA)	4.0	30.9	3.7	7.5	24.5	51.1	57.5	105.5	52.2	22.9	(NA)	(NA)
1977 Census-----	8191	8192	47	3.4	24.1	3.1	6.0	19.0	40.9	54.8	95.7	1.5	15.2	97	81
1976 ASM ⁶ -----	(NA)	(NA)	(NA)	3.1	29.3	2.6	5.8	22.6	51.0	55.8	108.0	2.3	18.5	(NA)	(NA)
1975 ASM ⁶ -----	(NA)	(NA)	(NA)	4.5	37.4	3.9	8.5	29.3	59.8	59.5	122.3	8.7	23.9	(NA)	(NA)
1974 ASM ⁶ -----	(NA)	(NA)	(NA)	4.7	31.7	4.0	8.0	25.4	61.3	58.3	118.0	5.1	21.9	(NA)	(NA)
1973 ASM-----	(NA)	(NA)	(NA)	4.1	25.4	3.5	7.0	19.5	44.8	38.3	83.3	2.2	16.8	(NA)	(NA)
1972 Census-----	72	73	33	3.9	23.1	3.3	6.5	17.4	41.8	32.2	73.1	2.0	13.9	93	78
1971 ASM-----	(NA)	(NA)	(NA)	3.3	18.4	2.9	5.1	14.7	34.0	19.6	52.5	3.4	9.3	(NA)	(NA)
1970 ASM-----	(NA)	(NA)	(NA)	3.3	16.1	3.0	5.5	13.5	29.8	18.6	48.4	3.1	7.0	(NA)	(NA)
1969 ASM ⁶ -----	(NA)	(NA)	(NA)	3.5	18.2	3.2	6.3	15.4	28.9	25.5	53.0	2.4	8.7	(NA)	(NA)
1968 ASM ⁶ -----	(NA)	(NA)	(NA)	3.2	14.1	3.2	5.7	11.8	27.7	16.5	43.0	2.2	6.5	(NA)	(NA)
1967 Census-----	61	62	31	3.0	12.7	2.7	5.1	10.4	22.4	16.4	38.8	1.3	4.8	96	88

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1967, see 1967 Census of Manufactures, vol. II, table 1 of the Industry chapter.

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during year.

⁴Effective with the 1982 Economic Censuses, uniform instructions for reporting inventories were introduced for all sector reports. Up to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown above and in historical census of manufactures and annual survey of manufactures publications. Inventories and value added data estimated on a basis comparable to the historical data, using the reported information for 1982, are shown below:

Industries	End-of-1981 inventories (million dollars)	End-of-1982 inventories (million dollars)	1982 value added by manufacture (million dollars)
Industry 2251, Women's hosiery, except socks -----	157.7	156.8	777.0
Industry 2252, Hosiery, n.e.c. -----	183.6	185.1	616.9
Industry 2253, Knit outerwear mills -----	513.6	507.8	1 698.1
Industry 2254, Knit underwear mills -----	187.4	165.2	445.6
Industry 2257, Circular knit fabric mills -----	269.0	237.7	846.4
Industry 2258, Warp knit fabric mills -----	203.0	171.2	536.1
Industry 2259, Knitting mills, n.e.c. -----	30.0	27.2	55.4

See Inventories in appendixes for explanation of the difference between end-of-1981 inventory figure shown in table and corresponding figure shown in footnote.

⁵Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

⁶Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus, these estimates may be of limited reliability.

⁷Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

⁸An unusually large number of administrative record cases may have been misclassified as to industry. This does not significantly affect the statistics other than the number of establishments and number of companies. The classification of establishments is further discussed in the appendix.

Table 1b. Selected Operating Ratios for the Industry: 1982 and Earlier Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS									
1982 Census-----	10 301	88	1 858	4.87	45	67	25 742	40	15.67
1981 ASM-----	9 780	86	1 945	4.54	46	69	23 949	41	14.35
1980 ASM-----	9 229	87	1 905	4.41	47	70	21 748	42	13.07
1979 ASM-----	8 542	88	1 905	4.08	46	69	20 471	42	12.24
1978 ASM-----	8 007	88	1 822	3.97	48	70	18 604	43	11.58
1977 Census-----	7 187	89	1 851	3.55	48	70	17 169	42	10.36
1976 ASM-----	6 792	89	1 826	3.37	50	75	13 727	49	8.41
1975 ASM-----	6 095	88	1 761	3.14	53	77	10 951	56	7.08
1974 ASM-----	5 602	87	1 739	2.90	56	81	9 401	60	6.19
1973 ASM-----	5 100	88	1 740	2.68	57	83	8 283	62	5.42
1972 Census-----	4 998	88	1 839	2.49	54	79	8 865	56	5.48
1971 ASM-----	4 703	88	1 763	2.43	53	76	8 716	53	5.60
1970 ASM-----	4 571	90	1 770	2.36	56	79	8 924	51	5.61
1969 ASM-----	4 476	90	1 898	2.18	51	75	9 768	46	5.71
1968 ASM-----	4 225	90	1 889	2.09	52	78	7 918	53	4.64
1967 Census-----	3 972	91	1 893	1.92	51	79	7 133	56	4.16
INDUSTRY 2252, HOSIERY, N.E.C.									
1982 Census-----	10 015	88	1 778	5.04	58	80	18 936	53	12.06
1981 ASM-----	9 825	87	1 915	4.55	60	83	17 392	56	10.39
1980 ASM-----	8 991	87	1 900	4.25	59	84	15 328	59	9.27
1979 ASM-----	8 332	88	1 916	3.94	59	84	13 942	60	8.28
1978 ASM-----	7 471	90	1 872	3.63	56	80	14 289	52	8.46
1977 Census-----	6 792	90	1 814	3.41	57	81	12 472	54	7.63
1976 ASM-----	6 404	89	1 776	3.27	56	80	11 848	54	7.52
1975 ASM-----	5 772	89	1 673	3.10	50	74	11 929	48	7.97
1974 ASM-----	5 530	90	1 747	2.74	56	82	9 387	59	5.99
1973 ASM-----	5 114	90	1 767	2.61	53	80	9 138	56	5.76
1972 Census-----	4 899	90	1 836	2.39	52	78	9 055	54	5.49
1971 ASM-----	4 499	90	1 774	2.25	53	78	8 221	55	5.16
1970 ASM-----	4 302	91	1 739	2.20	55	82	7 266	59	4.59
1969 ASM-----	4 104	91	1 804	2.05	57	81	7 336	56	4.46
1968 ASM-----	3 876	92	1 809	1.93	58	83	6 666	58	4.02
1967 Census-----	3 510	92	1 802	1.76	59	83	5 915	59	3.58
INDUSTRY 2253, KNIT OUTERWEAR MILLS									
1982 Census-----	11 099	84	1 825	5.29	46	70	25 521	43	16.71
1981 ASM-----	10 546	85	1 825	5.05	49	73	22 267	47	14.28
1980 ASM-----	9 499	86	1 796	4.61	49	74	19 957	48	12.88
1979 ASM-----	8 855	86	1 790	4.24	51	75	17 706	50	11.46
1978 ASM-----	8 440	87	1 791	4.04	49	76	16 682	51	10.69
1977 Census-----	7 973	86	1 818	3.70	52	77	15 884	50	10.17
1976 ASM-----	7 586	86	1 833	3.49	53	78	14 349	53	9.13
1975 ASM-----	7 390	85	1 856	3.39	51	75	14 578	51	9.24
1974 ASM-----	6 750	86	1 839	3.09	52	77	13 097	52	8.25
1973 ASM-----	6 131	87	1 889	2.81	52	77	11 690	52	7.09
1972 Census-----	5 785	88	1 882	2.65	54	79	10 746	54	6.53
1971 ASM-----	5 344	88	1 827	2.50	53	82	8 710	61	5.40
1970 ASM-----	4 935	87	1 838	2.30	51	80	7 937	62	4.94
1969 ASM-----	5 077	87	1 887	2.32	53	82	8 275	61	5.03
1968 ASM-----	4 984	87	1 922	2.26	54	82	8 429	59	5.05
1967 Census-----	4 654	87	1 905	2.14	53	80	8 196	57	4.95
INDUSTRY 2254, KNIT UNDERWEAR MILLS									
1982 Census-----	10 417	90	1 765	5.43	45	73	20 009	52	12.64
1981 ASM-----	9 892	90	1 778	5.15	43	73	15 404	64	9.63
1980 ASM-----	9 459	91	1 826	4.75	53	81	15 143	62	9.10
1979 ASM-----	8 096	90	1 794	4.11	51	80	14 362	56	8.92
1978 ASM-----	7 615	91	1 855	3.84	51	79	14 902	51	8.87
1977 Census-----	6 942	93	1 825	3.56	54	81	12 131	57	7.16
1976 ASM-----	6 471	92	1 823	3.36	60	87	10 442	62	6.22
1975 ASM-----	6 172	92	1 728	3.22	55	80	10 773	57	6.79
1974 ASM-----	5 948	92	1 795	3.02	57	81	11 156	53	6.79
1973 ASM-----	5 400	91	1 781	2.78	56	81	9 702	56	5.97
1972 Census-----	5 177	92	1 828	2.57	53	78	9 673	54	5.78
1971 ASM-----	4 941	89	1 827	2.37	55	83	7 751	64	4.75
1970 ASM-----	4 704	86	1 773	2.29	57	84	7 184	65	4.69
1969 ASM-----	4 218	89	1 817	2.09	57	85	6 853	62	4.25
1968 ASM-----	4 128	90	1 920	1.92	56	83	7 194	57	4.18
1967 Census-----	3 756	89	1 813	1.78	56	82	6 560	57	4.09
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS									
1982 Census-----	13 534	83	1 981	6.07	66	82	27 344	49	16.71
1981 ASM-----	12 364	85	1 971	5.45	66	83	23 769	52	14.23
1980 ASM-----	11 811	85	1 989	5.23	66	83	23 757	50	14.03
1979 ASM-----	10 935	85	1 968	4.91	65	82	22 413	49	13.44
1978 ASM-----	10 089	85	1 948	4.63	67	83	20 142	50	12.11
1977 Census-----	9 519	85	2 005	4.21	68	83	19 957	48	11.72
1976 ASM-----	8 965	85	2 039	3.77	65	82	18 087	50	10.46
1975 ASM-----	8 381	84	1 983	3.66	64	81	17 393	48	10.41
1974 ASM-----	7 796	83	2 050	3.34	66	84	14 710	53	8.60
1973 ASM-----	7 583	85	2 053	3.21	63	81	15 559	49	8.96
1972 Census-----	7 233	84	2 124	2.98	64	82	15 213	48	8.51

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1982 and Earlier Years—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2258, WARP KNIT FABRIC MILLS									
1982 Census	13 742	80	1 954	6.30	62	79	28 100	49	17.98
1981 ASM	13 195	85	2 044	5.75	64	80	29 656	44	17.05
1980 ASM	12 233	85	2 031	5.38	66	81	28 044	44	16.32
1979 ASM	10 820	84	2 063	4.72	68	83	22 885	47	13.14
1978 ASM	10 361	84	2 067	4.56	68	83	23 404	44	13.42
1977 Census	9 580	84	2 095	4.05	68	85	18 751	51	10.60
1976 ASM	9 324	85	2 033	3.97	70	85	19 883	47	11.57
1975 ASM	9 307	83	2 000	3.95	72	86	17 964	52	10.85
1974 ASM	8 401	83	2 034	3.61	70	85	17 500	48	10.36
1973 ASM	7 331	83	2 045	3.23	68	84	15 376	48	9.10
1972 Census	7 236	84	2 130	3.07	70	86	14 445	50	8.11
INDUSTRY 2259, KNITTING MILLS, N.E.C.									
1982 Census	11 655	86	1 880	5.47	50	80	19 103	61	11.79
1981 ASM	9 250	94	2 200	3.67	57	86	10 063	92	4.88
1980 ASM	8 528	92	2 091	3.74	49	75	12 472	68	6.51
1979 ASM	7 714	93	2 051	3.32	53	81	13 167	59	6.91
1978 ASM	7 725	92	2 027	3.27	55	84	12 775	60	6.81
1977 Census	7 076	91	1 942	3.17	57	82	12 014	59	6.82
1976 ASM	9 452	84	2 231	3.90	52	79	16 452	57	8.79
1975 ASM	8 311	87	2 179	3.45	49	79	13 289	63	7.04
1974 ASM	6 745	85	2 000	3.17	49	76	13 043	52	7.66
1973 ASM	6 195	85	2 000	2.79	46	76	10 927	57	6.40
1972 Census	5 923	85	1 970	2.68	44	76	10 718	55	6.43
1971 ASM	5 576	88	1 759	2.88	37	72	10 303	54	6.67
1970 ASM	4 879	91	1 833	2.45	38	72	9 030	54	5.42
1969 ASM	5 200	91	1 969	2.44	48	82	8 257	63	4.59
1968 ASM	4 406	100	1 781	2.07	38	71	8 656	51	4.86
1967 Census	4 233	90	1 889	2.04	42	75	7 423	57	4.37

Note: For qualifications of data, see footnotes on table 1a.

Table 2. Industry Statistics for Selected States: 1982 and 1977

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1982										1977			
	All establishments ²		All employees		Production workers				Value added by manufacture ⁴ (\$ million)	Cost of materials (\$ million)	Value of shipments (\$ million)	New capital expenditures (\$ million)	All employees ³ (1,000)	Value added by manufacture (\$ million)
	E1	Total (no.)	With 20 employees or more (no.)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS														
United States	-	206	118	30.2	311.1	26.7	49.6	241.5	777.4	636.8	1 411.3	26.0	26.6	457.0
Florida	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kentucky	E1	3	2	.3	2.9	.2	.4	2.4	5.5	5.0	11.1	(D)	AA	(D)
Mississippi	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
New Mexico	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	116	81	20.6	214.7	18.0	33.1	161.1	454.6	455.0	910.9	18.3	17.9	283.3
Pennsylvania	E3	15	8	.4	3.2	.3	.7	2.7	4.9	4.8	9.9	(D)	.3	3.6
South Carolina	-	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Tennessee	-	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	20.6
Virginia	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
INDUSTRY 2252, HOSIERY, N.E.C.														
United States	E1	420	263	32.6	326.5	28.8	51.2	258.1	617.3	832.2	1 443.4	31.4	32.2	401.5
Alabama	E5	41	24	2.0	17.7	1.8	3.3	14.4	33.8	57.8	91.4	(D)	1.4	13.7
Florida	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	19	12	1.8	18.5	1.5	2.9	14.2	33.8	55.1	88.8	2.1	1.9	22.9
Kentucky	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mississippi	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New York	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	274	171	20.2	200.7	18.1	31.6	161.5	366.5	508.2	869.6	16.5	20.3	252.7
Pennsylvania	-	8	6	1.5	17.0	1.2	2.3	12.8	33.5	33.7	66.4	.7	1.3	18.1
Tennessee	-	32	25	4.0	40.1	3.4	6.2	30.9	79.4	94.0	174.5	4.0	4.2	50.6
Virginia	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West Virginia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1982 and 1977—Con.

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1982											1977	
	All establishments ²		All employees		Production workers			Value added by manufacture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ³ (1,000)	Value added by manufacture (million dollars)
	E1	Total (no.)	With 20 employees or more (no.)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
INDUSTRY 2253, KNIT OUTERWEAR MILLS													
United States	E1	923	482	66.8	741.4	55.9	102.0	539.8	1 704.8	1 476.8	3 182.4	53.5	73.0
Alabama	E1	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
California	E3	73	32	2.6	28.2	2.2	4.2	21.1	56.9	36.7	92.7	1.1	2.5
Connecticut	-	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Florida	E2	36	14	.8	7.1	.7	1.1	6.0	12.7	10.4	23.4	.3	2.5
Georgia	E3	7	4	.8	7.8	.7	1.3	7.0	9.0	22.7	30.7	1.1	(D)
Illinois	E1	9	4	.3	3.8	.3	.5	2.5	8.5	6.0	15.0	(D)	(D)
Louisiana	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maine	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts	E2	17	11	1.8	18.1	1.6	2.8	15.2	33.7	24.0	56.1	2.6	53.2
Minnesota	E2	6	4	.6	7.0	.5	1.0	5.8	13.9	9.9	23.3	(D)	(D)
Mississippi	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	E1	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
New Jersey	E2	82	46	3.3	38.8	2.9	5.5	29.2	71.5	68.0	140.5	1.7	4.2
New York	E4	416	178	11.4	138.9	9.7	19.1	105.6	297.6	298.0	600.7	11.0	17.5
North Carolina	-	51	32	11.1	118.1	9.8	17.4	94.6	325.1	303.2	621.0	13.3	8.2
Ohio	-	9	8	1.3	20.7	1.0	2.3	12.0	44.6	30.1	75.0	2.0	106.0
Oregon	E8	4	3	.2	2.6	.2	.3	2.0	4.3	4.9	9.3	.2	EE
Pennsylvania	-	88	63	13.2	150.9	10.1	18.3	95.6	331.4	360.5	696.5	14.0	12.6
South Carolina	E3	13	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Tennessee	E1	11	10	1.6	14.3	1.3	2.3	10.5	34.9	15.7	51.0	.8	.7
Texas	E1	9	4	.4	5.1	.4	.7	3.8	7.8	3.3	11.0	.2	BB
Virginia	-	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.1	151.1
Washington	E6	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	9	7	1.5	19.4	1.2	2.1	12.8	45.9	19.6	66.3	.7	2.0
Industry 2253-11, Manufacturers													
United States	E1	391	216	45.3	492.1	38.3	68.3	359.7	1 181.6	875.7	2 063.9	33.3	52.5
Alabama	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
California	E2	31	15	1.3	16.3	1.1	2.1	11.2	33.1	21.2	54.3	.6	1.9
Florida	E2	15	7	.4	3.7	.4	.7	3.3	6.1	8.0	14.4	.1	29.1
Georgia	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	E1	7	3	.3	3.6	.2	.4	2.4	8.0	5.7	14.1	(D)	BB
Louisiana	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maine	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	-	7	5	.9	8.9	.8	1.3	7.0	21.0	20.8	40.0	(D)	CC
Minnesota	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
New Jersey	E1	32	20	1.5	17.2	1.3	2.4	13.2	29.6	36.8	67.2	2.0	27.0
New York	E5	133	47	4.3	51.2	3.8	7.1	40.2	92.4	96.7	192.8	3.5	8.4
North Carolina	-	31	24	8.2	83.8	7.3	12.7	67.7	238.9	159.3	397.5	(D)	FF
Ohio	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Oregon	E8	4	3	.2	2.6	.2	.3	2.0	4.3	4.9	9.3	.2	EE
Pennsylvania	-	47	37	10.2	107.7	7.9	14.2	71.8	248.7	233.9	487.1	11.3	10.6
South Carolina	E3	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	12.0
Tennessee	E1	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Virginia	-	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Washington	E6	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	8	6	1.4	18.8	1.1	2.0	12.4	45.0	19.0	64.9	.7	EE
Industry 2253-22, Converters													
United States	E1	130	33	5.9	95.2	4.2	8.3	53.1	290.9	535.6	821.0	10.7	6.5
California	E6	10	4	.3	3.2	.2	.5	2.4	11.6	14.1	24.8	.4	(NA)
Connecticut	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey	-	8	2	.2	3.6	.1	.3	1.6	13.8	25.4	39.4	(D)	AA
New York	E3	65	14	1.1	21.0	.7	1.5	10.0	93.8	174.6	270.1	1.8	65.5
North Carolina	-	7	2	2.2	28.8	1.9	3.6	22.4	77.5	141.2	211.9	(D)	.2
Pennsylvania	-	11	5	1.5	30.6	.9	1.7	13.2	61.5	124.2	185.7	2.0	(D)
Industry 2253-33, Contractors													
United States	E4	402	233	15.6	154.1	13.5	25.4	127.0	232.2	65.5	297.5	9.5	14.1
Alabama	E9	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	E4	32	13	1.0	8.7	.9	1.7	7.4	12.2	1.3	13.6	.5	4.0
Connecticut	E2	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.7
Florida	E3	17	7	.4	3.2	.3	.5	2.5	5.1	.5	5.6	.1	1.8
Georgia	E7	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	E7	6	6	.9	8.8	.8	1.5	7.9	10.8	1.3	12.1	1.2	15.8
New Jersey	E4	42	24	1.7	18.0	1.4	2.8	14.5	28.1	5.7	33.9	.8	EE
New York	E4	218	117	6.1	66.7	5.3	10.5	55.5	111.4	26.7	137.8	5.8	81.8
North Carolina	E1	13	6	.6	5.5	.6	1.0	4.4	8.7	2.7	11.6	(D)	CC
Ohio	E2	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pennsylvania	E4	30	21	1.5	12.5	1.3	2.3	10.5	21.2	2.4	23.7	.6	CC
South Carolina	E2	7	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	7	7	.9	5.9	.7	1.2	5.2	8.9	1.5	10.4	(D)	BB
Texas	E1	4	2	.2	1.6	.1	.3	1.3	2.2	.7	2.9	(D)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1982 and 1977—Con.

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1982											1977	
	All establishments ²		All employees		Production workers			Value added by manufacture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ³ (1,000)	Value added by manufacture (million dollars)
	E1	Total (no.)	With 20 employees or more (no.)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
INDUSTRY 2254, KNIT UNDERWEAR MILLS													
United States -----	-	84	61	22.3	232.3	20.0	35.3	191.7	446.2	369.7	829.9	9.3	25.2
Alabama -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia -----	E1	5	4	1.0	9.3	.9	1.8	7.6	29.7	16.2	46.0	.5	1.0
Kentucky -----	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Mississippi -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	19.5
New York -----	E1	15	8	1.0	12.6	.9	1.6	8.3	36.2	34.1	62.4	.8	1.0
North Carolina -----	-	14	12	6.4	65.1	5.8	10.6	54.9	99.8	103.2	210.9	2.6	4.7
Ohio -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pennsylvania -----	-	26	21	3.5	37.4	3.0	5.0	26.3	60.4	86.4	151.9	1.4	4.5
Tennessee -----	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Virginia -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS													
United States -----	E2	422	222	31.1	420.9	25.7	50.9	309.1	850.4	1 669.0	2 538.8	68.8	51.8
Alabama -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	19.6
California -----	E3	20	8	.7	8.1	.5	1.0	5.9	21.0	37.7	58.8	1.1	20.0
Florida -----	E5	11	6	.6	8.4	.5	1.1	6.1	16.9	28.4	45.5	3.1	12.8
Georgia -----	E3	12	7	1.3	19.8	1.0	2.4	13.5	38.9	58.9	98.3	1.3	27.2
Massachusetts -----	-	14	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	70.5
Minnesota -----	E6	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	7.7
New Jersey -----	E6	47	16	1.7	24.2	1.4	2.8	19.5	42.9	103.1	147.8	3.0	(D)
New York -----	E5	105	38	2.7	39.0	2.1	5.1	26.8	79.5	178.2	256.5	13.8	5.9
North Carolina -----	E1	123	88	13.7	172.0	11.4	21.5	125.4	324.5	747.3	1 085.7	24.8	(D)
Pennsylvania -----	E3	40	19	1.9	25.7	1.6	3.1	19.9	42.3	60.4	102.8	1.8	3.5
South Carolina -----	-	15	10	1.5	17.2	1.2	2.1	11.7	37.0	85.8	123.9	4.4	3.5
Tennessee -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Virginia -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Wisconsin -----	E5	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Industry 2257-11, Manufacturers													
United States -----	E1	197	125	21.4	285.3	17.6	35.3	210.1	533.9	1 299.8	1 848.9	45.9	37.6
Alabama -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
California -----	E4	7	3	.4	4.5	.3	.7	3.3	12.2	20.8	33.1	.9	13.0
Florida -----	E6	5	4	.4	4.9	.3	.6	3.7	10.5	19.9	30.4	BB	(D)
Georgia -----	E3	6	4	1.0	15.2	.7	1.8	10.5	27.8	51.5	79.7	1.0	EE
Massachusetts -----	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Minnesota -----	E6	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	7.7
New Jersey -----	E5	20	7	1.0	14.7	.8	1.6	12.1	25.1	89.8	116.5	2.3	21.1
New York -----	E6	38	14	1.2	18.3	1.0	2.7	13.1	30.4	66.8	97.4	2.1	3.8
North Carolina -----	E1	69	57	10.1	127.5	8.4	16.1	94.1	239.9	634.3	882.7	19.8	15.0
Pennsylvania -----	E5	11	6	.6	7.9	.5	.9	6.1	15.0	38.3	53.2	1.0	320.6
South Carolina -----	-	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	37.2
Tennessee -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Virginia -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin -----	E6	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Industry 2257-22, Converters													
United States -----	E3	47	23	2.9	47.0	2.3	4.5	33.6	167.7	235.9	406.4	14.7	3.2
California -----	E2	5	3	.2	2.2	.2	.2	1.6	6.5	14.2	20.6	(D)	AA
Massachusetts -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New York -----	E4	20	9	.8	12.0	.5	1.3	7.0	37.0	97.5	132.9	.6	19.9
North Carolina -----	-	7	6	.4	5.4	.3	.6	3.3	18.1	49.3	72.3	.1	EE
Virginia -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2257-33, Contractors													
United States -----	E2	178	74	6.8	88.6	5.7	11.1	65.3	148.8	133.4	283.5	8.2	10.9
Florida -----	E1	4	1	.2	2.8	.2	.4	1.9	5.6	4.1	9.9	(D)	.2
Georgia -----	-	6	3	.4	4.6	.3	.6	3.0	11.1	7.4	18.7	.3	AA
New Jersey -----	E4	22	8	.5	8.2	.5	.9	6.3	14.8	11.6	26.5	.7	CC
New York -----	E8	47	15	.7	8.7	.6	1.2	6.7	12.1	13.9	26.2	1.5	22.1
North Carolina -----	-	47	25	3.1	39.1	2.6	4.8	28.0	66.5	63.7	130.8	4.8	FF
Pennsylvania -----	E1	25	13	1.4	17.8	1.1	2.2	13.7	27.1	21.8	49.0	.8	EE

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1982 and 1977—Con.

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1982											1977		
	E1	All establishments ²		All employees		Production workers			Value added by manufacture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ³ (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2258, WARP KNIT FABRIC MILLS														
United States -----	-	207	130	19.0	261.1	15.2	29.7	187.2	533.9	904.0	1 465.8	44.0	23.7	444.4
Alabama -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	19.8
Georgia -----	E3	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey -----	E3	34	15	1.3	20.8	1.0	2.1	15.8	31.9	43.6	75.7	1.9	2.2	35.9
New York -----	E1	49	23	2.3	30.6	1.9	3.8	21.1	53.7	100.1	162.5	2.4	EE	(D)
North Carolina -----	-	44	36	8.1	104.9	6.5	12.2	75.1	215.3	392.9	627.9	23.4	9.1	178.5
Pennsylvania -----	-	19	14	1.8	30.3	1.4	3.1	22.7	84.0	125.6	210.7	2.8	2.9	53.3
Rhode Island -----	E1	13	10	.9	12.5	.7	1.3	9.3	28.6	42.7	71.7	.6	.6	13.5
South Carolina -----	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	32.1
Virginia -----	-	3	3	.9	12.0	.8	1.5	9.5	19.8	43.9	62.6	(D)	1.0	13.5
Industry 2258-11, Manufacturers														
United States -----	-	116	79	14.6	200.8	11.8	22.9	145.9	430.1	803.7	1 259.7	36.4	15.7	308.3
Alabama -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut -----	E1	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	14.0
Georgia -----	E3	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey -----	E3	22	11	.9	15.5	.7	1.5	11.6	22.6	35.0	57.5	1.1	1.8	27.2
New York -----	E1	24	14	1.7	22.9	1.4	2.8	15.5	40.9	90.6	140.1	1.7	1.3	24.5
North Carolina -----	-	21	19	6.3	83.5	5.0	9.4	60.1	179.1	353.5	551.5	19.3	5.0	121.1
Pennsylvania -----	-	8	7	1.5	25.1	1.1	2.5	18.1	74.9	119.0	194.4	2.5	1.8	31.0
Rhode Island -----	E1	10	7	.7	10.1	.6	1.2	7.5	24.2	41.5	66.0	.5	CC	(D)
Virginia -----	-	3	3	.9	12.0	.8	1.5	9.5	19.8	43.9	62.6	(D)	1.0	13.5
Industry 2258-22, Converters														
United States -----	E1	16	8	.6	7.9	.4	.8	4.4	21.8	45.3	67.0	1.7	2.7	61.6
North Carolina -----	E2	5	4	.4	5.3	.3	.5	2.8	12.2	23.2	35.3	(D)	1.4	18.4
Industry 2258-33, Contractors														
United States -----	E1	75	43	3.8	52.4	3.0	6.0	36.9	82.1	54.9	139.1	5.9	5.2	74.5
New Jersey -----	E4	10	3	.4	4.5	.2	.5	3.6	7.7	4.3	12.2	.7	.5	8.6
New York -----	E3	23	9	.5	7.6	.4	.9	5.6	12.6	8.7	21.5	.7	.8	8.7
North Carolina -----	-	18	13	1.4	16.1	1.2	2.3	12.3	24.0	16.1	41.0	(D)	2.7	39.0
Pennsylvania -----	E1	8	6	.3	5.0	.3	.6	4.4	8.6	5.6	14.7	.3	.6	7.3
South Carolina -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2259, KNITTING MILLS, N.E.C.														
United States -----	E2	72	29	2.9	33.8	2.5	4.7	25.7	55.4	57.5	114.5	1.5	3.4	40.9
New Jersey -----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
New York -----	E2	26	10	.8	11.3	.8	1.4	8.4	17.5	16.2	34.6	.4	1.6	15.6
North Carolina -----	-	15	5	.5	4.1	.4	.6	3.1	8.5	10.3	18.7	.3	.4	4.8
Pennsylvania -----	-	4	3	.2	2.3	.2	.3	1.5	3.1	3.0	6.2	(D)	.2	4.8

Note: For qualifications of data, see footnotes on table 1a.

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Includes establishments with payroll at any time during year.

³Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

⁴Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, data for inventories and value added by manufacture are not comparable to prior-year data.

Table 3a. Summary Statistics for the Industry: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)				Knit underwear mills (SIC 2254)		
			Total	Manufacturers (SIC 2253-11)	Converters (SIC 2253-22)	Contractors (SIC 2253-33)			
Companies ¹ number	179	376	893	(NA)	(NA)	(NA)	72		
All establishments ² do	206	420	923	391	130	402	84		
With 1 to 19 employees do	88	157	441	175	97	169	23		
With 20 to 99 employees do	53	163	343	119	23	201	26		
With 100 employees or more do	65	100	139	97	10	32	35		
All employees:									
Average for year 1,000 mil. dol.	30.2	32.6	66.8	45.3	5.9	15.6	22.3		
Annual payroll ³ 1,000 mil. dol.	311.1	326.5	741.4	492.1	95.2	154.1	232.3		
Production workers:									
Average for year 1,000	26.7	28.8	55.9	38.3	4.2	13.5	20.0		
March do	26.6	28.2	54.6	37.3	4.0	13.3	20.1		
May do	26.5	28.7	56.5	38.6	4.2	13.6	20.1		
August do	26.9	29.2	57.2	39.2	4.3	13.7	19.8		
November do	26.9	28.9	55.4	38.0	4.1	13.2	19.9		
Hours millions	49.6	51.2	102.0	68.3	8.3	25.4	35.3		
January to March do	12.1	12.0	24.2	16.2	1.9	6.1	8.4		
April to June do	12.8	13.2	26.5	17.7	2.1	6.7	9.0		
July to September do	12.3	13.0	25.9	17.2	2.1	6.6	8.7		
October to December do	12.3	13.0	25.2	17.1	2.1	6.0	9.2		
Wages mil. dol.	241.5	258.1	539.8	359.7	53.1	127.0	191.7		
Value added by manufacture ⁴ do	777.4	617.3	1 704.8	1 181.6	290.9	232.2	446.2		
Cost of materials, etc. ⁵ do	636.8	832.2	1 476.8	875.7	535.6	65.5	369.7		
Materials, parts, containers, etc., consumed do	551.2	734.5	1 047.9	732.2	264.8	50.9	329.9		
Resales do	22.4	40.4	24.5	22.7	1.4	.3	5.2		
Fuels consumed ⁶ do	9.6	12.5	27.5	19.0	4.7	3.8	9.9		
Purchased electric energy ⁷ do	19.8	16.0	26.4	18.9	3.5	4.0	9.5		
Contract work do	33.8	28.8	350.5	82.9	261.2	6.5	15.2		
Value of shipments, including resales do	1 411.3	1 443.4	3 182.4	2 063.9	821.0	297.5	829.9		
Value of resales do	26.3	54.7	34.5	31.0	2.1	1.4	7.2		
Manufacturers' inventories (see tables 3b and 3c)									
Capital expenditures for plant and equipment ⁸ do	38.3	40.7	62.5	39.7	12.3	10.3	9.9		
New capital expenditures do	26.0	31.4	53.5	33.3	10.7	9.5	9.3		
New buildings and other structures do	2.4	7.2	9.4	6.2	2.7	.6	2.0		
New machinery and equipment do	23.6	24.2	44.1	27.2	8.1	8.9	7.4		
Used capital expenditures do	12.4	9.3	9.0	6.4	1.7	.9	.6		
Primary product specialization ratio ⁹ percent	95	92	95	(NA)	(NA)	(NA)	88		
Coverage ratio ¹⁰ do	91	95	53	(NA)	(NA)	(NA)	93		
Item	Circular knit fabric mills (SIC 2257)				Warp knit fabric mills (SIC 2258)				Knitting mills, n.e.c. (SIC 2259)
	Total	Manufacturers (SIC 2257-11)	Converters (SIC 2257-22)	Contractors (SIC 2257-33)	Total	Manufacturers (SIC 2258-11)	Converters (SIC 2258-22)	Contractors (SIC 2258-33)	
Companies ¹ number	384	(NA)	(NA)	(NA)	186	(NA)	(NA)	(NA)	71
All establishments ² do	422	197	47	178	207	116	16	75	72
With 1 to 19 employees do	200	72	24	104	77	37	8	32	43
With 20 to 99 employees do	127	58	14	55	81	41	6	34	23
With 100 employees or more do	95	67	9	19	49	38	2	9	6
All employees:									
Average for year 1,000	31.1	21.4	2.9	6.8	19.0	14.6	.6	3.8	2.9
Annual payroll ³ 1,000 mil. dol.	420.9	285.3	47.0	88.6	261.1	200.8	7.9	52.4	33.8
Production workers:									
Average for year 1,000	25.7	17.6	2.3	5.7	15.2	11.8	.4	3.0	2.5
March do	26.2	18.0	2.4	5.8	15.6	12.0	.6	3.0	2.6
May do	26.2	18.0	2.4	5.8	15.5	12.1	.4	3.0	2.5
August do	25.5	17.4	2.4	5.7	15.0	11.7	.4	2.9	2.6
November do	24.7	17.1	2.1	5.5	14.7	11.4	.4	2.9	2.4
Hours millions	50.9	35.3	4.5	11.1	29.7	22.9	.8	6.0	4.7
January to March do	12.8	9.0	1.2	2.7	7.4	5.8	.2	1.4	1.2
April to June do	13.3	9.2	1.1	3.0	7.7	6.0	.2	1.6	1.1
July to September do	12.5	8.6	1.1	2.8	7.3	5.6	.2	1.5	1.1
October to December do	12.3	8.5	1.1	2.7	7.3	5.6	.2	1.5	1.2
Wages mil. dol.	309.1	210.1	33.6	65.3	187.2	145.9	4.4	36.9	25.7
Value added by manufacture ⁴ do	850.4	533.9	167.7	148.8	533.9	430.1	21.8	82.1	55.4
Cost of materials, etc. ⁵ do	1 669.0	1 299.8	235.9	133.4	904.0	803.7	45.3	54.9	57.5
Materials, parts, containers, etc., consumed do	1 474.3	1 212.9	157.1	104.3	806.4	735.8	28.8	41.9	49.0
Resales do	4.8	2.9	.2	1.7	2.7	2.7	-.	-.	1.8
Fuels consumed ⁶ do	57.8	36.8	2.5	18.5	30.0	22.8	.3	6.9	1.0
Purchased electric energy ⁷ do	40.3	26.6	6.1	7.6	25.7	20.5	.5	4.7	1.9
Contract work do	91.8	20.5	69.9	1.3	39.1	21.9	15.7	1.5	3.7
Value of shipments, including resales do	2 538.8	1 848.9	406.4	283.5	1 465.8	1 259.7	67.0	139.1	114.5
Value of resales do	6.6	3.4	.2	1.8	(D)	(D)	-.	-.	(D)

See footnotes at end of table.

Table 3a. Summary Statistics for the Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Circular knit fabric mills (SIC 2257)				Warp knit fabric mills (SIC 2258)				Knitting mills, n.e.c. (SIC 2259)
	Total	Manufacturers (SIC 2257- 11)	Converters (SIC 2257- 22)	Contractors (SIC 2257- 33)	Total	Manufacturers (SIC 2258- 11)	Converters (SIC 2258- 22)	Contractors (SIC 2258- 33)	
Manufacturers' inventories (see tables 3b and 3c)									
Capital expenditures for plant and equipment ⁸ ----- mil. dol.	81.3	55.8	14.9	10.6	58.6	50.2	1.7	6.6	2.1
New capital expenditures-----do-----	68.8	45.9	14.7	8.2	44.0	36.4	1.7	5.9	1.5
New buildings and other structures-----do-----	11.9	6.7	4.1	1.2	4.0	3.7	(Z)	.3	.1
New machinery and equipment-----do-----	56.9	39.2	10.7	7.0	40.1	32.7	1.7	5.7	1.5
Used capital expenditures-----do-----	12.6	10.0	.2	2.4	14.7	13.8	.1	.8	.6
Primary product specialization ratio ⁹ ----- percent	92	(NA)	(NA)	(NA)	97	(NA)	(NA)	(NA)	97
Coverage ratio ¹⁰ ----- do -----	93	(NA)	(NA)	(NA)	90	(NA)	(NA)	(NA)	81

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during year.

³Data on supplemental labor costs are not included in annual payroll, but are shown in table 3d.

⁴Value added by manufacture is computed using inventory data reported on a cost or market basis prior to any adjustment to LIFO cost. See table 3b, footnote 1 for further explanation.

⁵Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3d.

⁶Data on purchased fuels by type were not collected for 1982. See MC82-S-4, Fuels and Electric Energy Consumed, for 1981 data on purchased fuels by type.

⁷Data on quantity of electric energy used for heat and power are included in table 3d.

⁸Data on capital expenditures for new machinery and equipment by type, depreciable assets, retirements, rental payments, and depreciation are included in table 3d.

⁹Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

¹⁰Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

Table 3b. Value of Inventories for the Industry: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Women's hosiery, except socks (SIC 2251)		Hosiery, n.e.c. (SIC 2252)		Knit outerwear mills (SIC 2253)		Knit underwear mills (SIC 2254)	
	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982
Total inventories¹ -----	160.1	159.9	196.3	199.2	539.5	533.4	189.0	167.4
Detail by method of valuation:								
Subject to LIFO costing ² -----	25.7	20.9	59.4	54.0	155.4	173.1	96.7	86.9
LIFO reserve-----	2.5	3.0	12.2	13.6	25.2	30.6	11.7	12.2
LIFO value-----	23.2	17.9	47.2	40.4	130.2	142.5	85.0	74.7
Not subject to LIFO costing -----	114.2	107.4	94.0	100.7	276.8	265.7	63.9	56.7
Valuation method not reported ³ -----	20.2	31.5	42.7	44.1	106.7	94.0	26.8	22.4
Amount subject to LIFO reported without associated reserve and value ⁴ -----	-	-	.3	.3	.6	.7	1.6	1.4
Detail by stage of fabrication:								
Finished goods -----	55.7	53.7	82.5	86.1	275.2	275.1	102.3	92.0
Work in process -----	63.1	68.0	65.2	67.8	127.5	126.7	49.1	45.4
Materials and supplies -----	41.3	38.2	48.6	45.3	136.8	131.6	37.6	30.0
Item	Circular knit fabric mills (SIC 2257)			Warp knit fabric mills (SIC 2258)			Knitting mills, n.e.c. (SIC 2259)	
	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982
Total inventories¹ -----	282.3	254.8	217.3	182.4	30.1	27.3		
Detail by method of valuation:								
Subject to LIFO costing ² -----	100.3	79.8	71.7	58.1	1.3	1.3		
LIFO reserve-----	19.4	20.2	16.6	15.0	.1	.2		
LIFO value-----	81.0	59.7	55.1	43.2	1.2	1.1		
Not subject to LIFO costing -----	116.6	112.0	106.2	89.6	16.8	18.8		
Valuation method not reported ³ -----	61.2	58.7	38.7	34.5	12.0	7.2		
Amount subject to LIFO reported without associated reserve and value ⁴ -----	4.1	4.2	.7	.2	(Z)	(Z)		
Detail by stage of fabrication:								
Finished goods -----	83.1	74.9	68.5	52.2	10.7	9.7		
Work in process -----	87.9	76.7	80.1	68.5	6.3	5.5		
Materials and supplies -----	111.4	103.2	68.7	61.7	13.2	12.1		

¹Effective with the 1982 Economic Censuses, uniform instructions for reporting inventories were introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (LIFO, FIFO, market, to name a few). In 1982, all respondents were requested to report inventories at cost or market. LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve. For further explanation, see inventories in appendixes.

²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost, but did not provide associated LIFO reserve and value figures.

Table 3c. Inventories by Specific Method of Valuation for the Industry: End of 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Women's hosiery, except socks (SIC 2251)		Hosiery, n.e.c. (SIC 2252)		Knit outerwear mills (SIC 2253)		Knit underwear mills (SIC 2254)			
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)		
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)	100.0	(X)		
Last-In, First-Out (LIFO) methods	13.1	(X)	27.1	(X)	32.4	(X)	51.9	(X)		
Non-LIFO methods	67.2	(X)	50.5	(X)	49.8	(X)	33.9	(X)		
Cost basis:										
First-In, First-Out (FIFO)	25.5	.4	23.9	1.9	28.2	1.8	19.3	4.2		
Average cost	6.6	.1	4.5	1.1	1.3	.2	7.6	5.4		
Specific or actual cost .....	.5		4.3	.5	3.0	.4	2.0	.5	
Standard cost	34.0	.5	14.5	1.4	15.2	1.3	4.9	1.3		
Other .....	.3	.2	1.9	1.7	.2	.1	(Z)	(Z)	
Market basis:										
Market lower than cost	(Z)	(Z)	.5	.1	1.7	.8	(Z)	(Z)		
Market always used .....	.2	(Z)	1.0	.8	.3	.2	(Z)	(Z)	
Valuation method not reported	19.7	(X)	22.2	(X)	17.6	(X)	13.4	(X)		
Amount subject to LIFO reported without associated reserve and value	(Z)	(X)	.2	(X)	.1	(X)	.8	(X)		
Item	Circular knit fabric mills (SIC 2257)		Warp knit fabric mills (SIC 2258)		Knitting mills, n.e.c. (SIC 2259)					
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)		Absolute standard error (percent)
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)	100.0	(X)		
Last-In, First-Out (LIFO) methods	31.3	(X)	31.9	(X)	4.8		(X)			
Non-LIFO methods	44.0	(X)	49.1	(X)	68.9		(X)			
Cost basis:										
First-In, First-Out (FIFO)	27.6	1.4	13.3	2.3	35.5		2.1			
Average cost	3.0	.3	(Z)	(Z)	6.9		.4			
Specific or actual cost	1.0	.1	7.3	3.8	4.1		1.2			
Standard cost	9.0	.8	23.2	2.7	10.3		.6			
Other	2.2	.2	4.2	.6	7.3		2.6			
Market basis:										
Market lower than cost7	.1	1.1	.7	4.9		.3			
Market always used6	.1	(Z)	(Z)	(Z)		(Z)			
Valuation method not reported	23.0	(X)	18.9	(X)	26.2		(X)			
Amount subject to LIFO reported without associated reserve and value	1.7	(X)	.1	(X)	.1		(X)			

Note: The percentages shown for the LIFO and non-LIFO totals and the categories "valuation method not reported" and "amount subject to LIFO reported..." are based on the census universe estimates included in table 3b. The percentages shown for the specific non-LIFO methods of valuation (e.g., FIFO, etc.) are based on a representative sample of establishments included in the annual survey of manufactures (ASM) panel for 1982 (see appendixes for description of ASM). The absolute standard error of each of the ASM estimates is shown above.

Table 3d. Supplemental Industry Statistics Based on Sample Estimates: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Women's hosiery, except socks (SIC 2251)		Hosiery, n.e.c. (SIC 2252)		Knit outerwear mills (SIC 2253)		Knit underwear mills (SIC 2254)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Supplemental labor costs:								
Total	55.2	1	45.1	4	121.5	2	42.0	2
Legal costs	27.5	1	26.5	5	64.5	2	19.8	1
Voluntary costs	27.8	2	18.6	4	57.1	2	22.2	4
Purchased services:								
Cost of purchased services for the repair of—								
Buildings and other structures	1.5	12	2.5	15	3.3	13	1.4	8
Response coverage ratio (percent) ²	78.9	(X)	65.9	(X)	54.8	(X)	81.9	(X)
Machinery	4.7	3	4.2	17	9.8	5	4.5	7
Response coverage ratio (percent) ²	81.5	(X)	66.3	(X)	56.5	(X)	81.9	(X)
Cost of purchased communication services	1.7	3	1.6	9	5.2	7	.8	8
Response coverage ratio (percent) ²	75.4	(X)	55.9	(X)	60.4	(X)	80.5	(X)
Electric energy used for heat and power:								
Purchased:								
Quantity (million kWh)	463.0	1	326.5	3	502.5	3	211.4	2
Cost	19.8	(X)	16.0	(S)	26.4	(X)	9.5	(X)
Generated less sold (million kWh)	-	-	(S)	(S)	-	-	-	-
Gross book value of depreciable assets:								
Total:								
Beginning of year	287.6	4	257.4	6	593.5	4	191.4	5
New capital expenditures	23.1	14	30.8	17	50.6	9	9.9	11
Used capital expenditures	11.7	1	6.4	5	7.2	6	.3	3
Retirements	24.8	17	18.5	5	48.9	6	7.7	10
End of year	297.6	3	276.2	5	602.4	4	194.0	5

See footnotes at end of table.

Table 3d. Supplemental Industry Statistics Based on Sample Estimates: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Women's hosiery, except socks (SIC 2251)		Hosiery, n.e.c. (SIC 2252)		Knit outerwear mills (SIC 2253)		Knit underwear mills (SIC 2254)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Gross book value of depreciable assets—Con.								
Buildings and other structures:								
Beginning of year	83.9	5	77.1	7	168.2	4	70.2	5
New capital expenditures	1.8	41	9.8	29	7.7	6	1.8	8
Used capital expenditures	4.1	1	2.8	1	1.6	1	.3	1
Retirements	1.6	61	4.1	3	8.0	6	4.7	16
End of year	88.1	5	85.6	6	169.6	4	67.5	5
Machinery and equipment:								
Beginning of year	203.6	3	180.2	6	425.3	5	121.2	5
New capital expenditures	21.2	11	21.1	13	42.9	10	8.2	13
Automobiles, trucks, etc., for highway use	.3	22	.6	47	1.4	51	.1	15
Computers and peripheral data processing equipment	2.1	1	.3	18	.9	10	.1	1
All other	17.3	3	16.1	12	25.4	10	7.1	14
New machinery and equipment, n.s.k. ³	1.5	151	4.1	46	15.2	18	.8	3
Used capital expenditures	7.6	1	3.6	9	5.6	8	.1	19
Retirements	23.2	16	14.3	6	40.9	7	3.0	2
End of year	209.5	3	190.6	6	432.8	5	126.5	5
Rental payments:								
Total	4.9	5	11.0	10	17.7	6	2.8	13
Buildings and other structures	1.9	2	5.0	11	11.3	8	1.1	26
Machinery and equipment	3.0	8	6.0	12	6.3	7	1.7	11
Depreciation charges during 1982:								
Total	19.6	2	18.3	5	42.5	6	10.9	6
Buildings and other structures	3.1	5	4.0	9	7.2	6	2.9	9
Machinery and equipment	16.5	2	14.3	5	35.3	6	8.0	6
Item	Circular knit fabric mills (SIC 2257)			Warp knit fabric mills (SIC 2258)			Knitting mills, n.e.c. (SIC 2259)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)		Amount (million dollars)	Relative standard error of estimate ¹ (percent)		Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Supplemental labor costs:								
Total	74.8	2		43.6	2		4.7	5
Legal costs	35.3	2		22.5	4		2.8	5
Voluntary costs	39.5	3		21.1	4		1.8	6
Purchased services:								
Cost of purchased services for the repair of—								
Buildings and other structures	3.0	14	2.7	25	.1		79	
Response coverage ratio (percent) ²	63.4	(X)	62.2	(X)	32.1		(X)	
Machinery	13.6	7	6.0	4	.4		58	
Response coverage ratio (percent) ²	68.0	(X)	68.3	(X)	55.3		(X)	
Cost of purchased communication services	2.9	8	2.0	16	.2		44	
Response coverage ratio (percent) ²	68.7	(X)	67.3	(X)	53.6		(X)	
Electric energy used for heat and power:								
Purchased:								
Quantity (million kWh)	844.5	1		540.3	2		24.1	2
Cost	40.3	(X)		25.7	(X)		1.9	(X)
Generated less sold (million kWh)	-	-		-	-		-	-
Gross book value of depreciable assets:								
Total:								
Beginning of year	982.9	6		574.7	2		39.8	5
New capital expenditures	67.8	6		42.0	11		1.6	56
Used capital expenditures	8.5	11		14.7	8		1.6	64
Retirements	121.5	10		40.1	5		1.1	3
End of year	937.8	6		591.3	3		41.8	1
Buildings and other structures:								
Beginning of year	240.6	8		137.8	7		12.0	7
New capital expenditures	13.1	9		6.5	51		(Z)	1
Used capital expenditures	.1	1		.2	68		.4	72
Retirements	24.1	4		6.0	15		.2	11
End of year	229.6	8		138.4	9		12.2	7
Machinery and equipment:								
Beginning of year	742.3	6		436.9	2		27.7	4
New capital expenditures	54.7	6		35.5	5		1.6	57
Automobiles, trucks, etc., for highway use	1.4	22	.4		19		(Z)	1
Computers and peripheral data processing equipment	1.3	25	.8		3		(Z)	63
All other	30.4	4		31.0	5		1.2	74
New machinery and equipment, n.s.k. ³	21.6	14	3.4	6	1.4		1	65
Used capital expenditures	8.4	11	14.6	8	1.2		1	65
Retirements	97.4	11	34.0	4	.9		1	1
End of year	708.0	6		452.8	2		29.6	3
Rental payments:								
Total	18.1	4		9.5	8		1.1	15
Buildings and other structures	8.3	9		3.6	11		.9	6
Machinery and equipment	9.8	3		5.8	10		.3	43
Depreciation charges during 1982:								
Total	65.2	5		40.5	7		2.9	12
Buildings and other structures	9.7	8		5.4	18		.4	3
Machinery and equipment	55.5	6		35.0	5		2.6	14

See footnotes at end of table.

Table 3d. Supplemental Industry Statistics Based on Sample Estimates: 1982—Con.

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are also shown in table 3a. Data in table 3a are census universe totals and may differ from annual survey of manufactures (ASM) sample estimates shown in this table. Data in this table represent best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as universe figures shown in table 3a.

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes.

²Measure of extent to which respondents reported each item. Derived for each item by calculating the ratio of weighted employment for those sample establishments that reported the specific inquiry to weighted total employment for all sample establishments classified in industry. (See appendixes for explanation of sample weight.)

³Represents total machinery and equipment expenditures for establishments that did not break down their expenditures by specific type.

Table 4. Industry Statistics by Employment Size of Establishment: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E1	All establish- ments (no.)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures (million dollars)	End-of- year inven- tories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS												
Total	-	206	30.2	311.1	26.7	49.6	241.5	777.4	636.8	1 411.3	26.0	159.9
Establishments with an average of—												
1 to 4 employees	E9	48	.1	.8	.1	.1	.7	2.2	1.9	4.2	.1	.6
5 to 9 employees	E9	13	.1	1.3	.1	.1	.9	3.2	2.8	6.0	.2	1.1
10 to 19 employees	E5	27	.4	4.3	.3	.6	3.2	5.9	8.1	14.9	.3	2.3
20 to 49 employees	E5	26	.7	7.2	.7	1.3	5.7	12.2	12.5	24.9	.5	2.5
50 to 99 employees	E1	27	1.8	15.8	1.6	2.8	11.9	29.1	45.4	74.4	1.1	8.6
100 to 249 employees	E1	29	4.6	42.4	4.2	7.4	35.4	78.2	128.1	205.8	3.4	23.2
250 to 499 employees	-	19	7.0	65.2	6.3	11.7	52.1	156.8	127.3	287.2	5.3	33.4
500 to 999 employees	-	14	10.3	106.0	9.6	18.1	90.7	330.5	219.0	547.0	8.8	56.7
1,000 to 2,499 employees	-	2	5.2	68.1	4.0	7.4	40.7	159.2	91.7	247.0	6.3	31.5
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	61	.5	3.8	.4	.8	3.0	8.8	7.7	16.7	.3	2.5
INDUSTRY 2252, HOSIERY, N.E.C.												
Total	E1	420	32.6	326.5	28.8	51.2	258.1	617.3	832.2	1 443.4	31.4	199.2
Establishments with an average of—												
1 to 4 employees	E8	55	.1	.9	.1	.2	.9	1.6	2.2	3.9	.1	.6
5 to 9 employees	E7	43	.3	2.7	.3	.5	2.2	4.7	7.2	12.0	.3	1.9
10 to 19 employees	E6	59	.9	6.8	.8	1.7	5.4	11.8	18.8	30.7	.6	3.3
20 to 49 employees	E2	110	3.4	31.4	3.0	5.3	24.7	55.7	106.2	161.4	2.8	15.2
50 to 99 employees	E1	53	3.8	34.3	3.2	5.7	25.8	60.6	93.6	153.2	3.4	16.0
100 to 249 employees	-	67	10.9	109.1	9.6	17.5	87.2	202.9	266.7	468.0	12.3	61.6
250 to 499 employees	-	27	9.3	96.5	8.3	14.5	76.8	197.6	252.5	447.5	8.0	75.3
500 to 999 employees	-	5	3.9	44.7	3.5	5.9	35.2	82.5	85.0	166.6	4.0	25.4
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	98	.8	6.5	.7	1.3	5.0	10.9	16.5	27.7	.5	3.7
INDUSTRY 2253, KNIT OUTERWEAR MILLS												
Total	E1	923	66.8	741.4	55.9	102.0	539.8	1 704.8	1 476.8	3 182.4	53.5	533.4
Establishments with an average of—												
1 to 4 employees	E9	180	.4	5.1	.3	.6	4.8	13.7	10.8	24.7	.3	3.3
5 to 9 employees	E5	104	.7	10.2	.1	1.1	7.2	33.1	43.0	77.0	1.0	6.1
10 to 19 employees	E4	157	2.3	29.4	1.8	3.5	20.3	74.0	96.2	171.0	1.7	20.0
20 to 49 employees	E3	223	7.2	74.6	6.1	12.0	55.6	143.7	130.2	273.4	6.9	30.0
50 to 99 employees	E2	120	8.2	88.6	7.1	13.2	68.7	158.0	147.7	309.3	4.6	37.2
100 to 249 employees	E2	85	12.7	140.5	10.9	19.8	107.4	279.2	245.3	527.8	8.4	73.5
250 to 499 employees	-	31	10.7	112.5	9.3	16.9	86.6	271.5	238.4	505.9	7.6	86.3
500 to 999 employees	-	15	9.6	123.4	7.6	13.9	78.5	320.4	226.4	551.1	8.8	132.4
1,000 to 2,499 employees	-	7	15.0	157.1	12.2	21.0	110.7	411.1	339.0	742.1	14.3	144.6
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	151	.8	7.9	.7	1.3	6.6	21.7	21.8	44.1	.7	6.1
Industry 2253-11, Manufacturers												
Total	E1	391	45.3	492.1	38.3	68.3	359.7	1 181.6	875.7	2 063.9	33.3	394.7
Establishments with an average of—												
1 to 4 employees	E9	89	.2	2.4	.2	.3	2.3	4.6	4.4	9.1	.1	1.2
5 to 9 employees	E8	38	.3	3.6	.2	.4	2.8	6.8	8.0	15.4	.2	1.9
10 to 19 employees	E6	48	.7	8.2	.6	1.0	6.4	16.0	20.0	36.7	.6	4.8
20 to 49 employees	E3	67	2.2	23.9	1.9	3.4	17.1	46.8	60.7	107.5	1.7	15.7
50 to 99 employees	E2	52	3.7	41.7	3.3	6.0	32.0	70.0	60.4	134.2	2.2	17.7
100 to 249 employees	E2	51	8.0	89.4	7.1	12.7	68.7	181.5	156.1	340.5	4.5	55.0
250 to 499 employees	-	26	9.1	94.6	8.1	14.6	75.2	231.6	166.7	391.3	7.0	62.2
500 to 999 employees	-	13	21.2	228.4	17.0	29.9	155.3	624.3	399.4	1 029.3	16.9	236.3
1,000 to 2,499 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	103	.6	5.5	.5	.9	4.6	10.7	10.5	21.5	.4	3.0

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	All establish- ments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of- year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2253, KNIT OUTERWEAR MILLS—Con.												
Industry 2253-22, Converters												
Total	E1	130	5.9	95.2	4.2	8.3	53.1	290.9	535.6	821.0	10.7	111.0
Establishments with an average of—												
1 to 4 employees	E9	41	.1	1.1	.1	.1	1.1	5.5	5.6	11.3	.1	1.7
5 to 9 employees	E4	23	.2	2.5	.1	.2	1.5	19.3	33.8	53.1	.6	3.6
10 to 19 employees	E4	33	.5	9.1	.3	.7	4.1	35.5	72.7	108.6	.4	13.0
20 to 49 employees	E1	13	.4	6.4	.2	.6	1.7	25.8	54.8	81.0	.5	7.5
50 to 99 employees	-	10	.7	9.5	.5	.9	5.9	30.5	70.6	100.2	1.4	13.5
100 to 249 employees	E1	6	4.1	66.7	3.0	5.7	38.9	174.3	298.2	466.8	7.8	71.7
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	48	.2	2.4	.2	.4	2.0	11.0	11.3	22.6	.3	3.2
Industry 2253-33, Contractors												
Total	E4	402	15.6	154.1	13.5	25.4	127.0	232.2	65.5	297.5	9.5	27.8
Establishments with an average of—												
1 to 4 employees	E9	50	.1	1.7	.1	.2	1.4	3.6	.7	4.3	(Z)	.4
5 to 9 employees	E7	43	.3	4.1	.2	.5	2.9	7.1	1.3	8.5	.2	.7
10 to 19 employees	E4	76	1.1	12.1	.9	1.8	9.8	22.5	3.5	25.7	.8	2.3
20 to 49 employees	E4	143	4.6	44.3	4.0	8.0	36.8	71.1	14.7	85.0	4.8	6.7
50 to 99 employees	E3	58	3.9	37.4	3.4	6.3	30.8	57.5	16.6	74.9	1.0	6.0
100 to 249 employees	E3	28	5.5	54.5	4.8	8.7	45.3	70.4	28.8	99.1	2.7	11.6
250 to 499 employees	E3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2254, KNIT UNDERWEAR MILLS												
Total	-	84	22.3	232.3	20.0	35.3	191.7	446.2	369.7	829.9	9.3	167.4
Establishments with an average of—												
1 to 4 employees	E1	14	(Z)	.3	(Z)	(Z)	.2	2.3	2.4	4.8	(Z)	.3
5 to 9 employees	E9	4	(Z)	.2	(Z)	(Z)	.2	.3	.4	.8	(Z)	.2
10 to 19 employees	E3	5	.1	.7	.1	.1	.5	.7	3.6	4.3	(Z)	1.1
20 to 49 employees	E3	12	.4	5.3	.4	.7	3.5	10.1	7.8	19.1	.3	4.1
50 to 99 employees	-	14	1.0	9.8	.9	1.6	7.8	21.3	16.9	38.4	.6	7.3
100 to 249 employees	E1	11	1.6	13.9	1.4	2.4	10.3	28.4	23.3	50.9	.4	13.4
250 to 499 employees	-	11	3.8	39.5	3.4	6.0	32.3	71.9	81.6	158.8	2.1	33.9
500 to 999 employees	-	8	5.6	58.6	4.9	8.8	45.5	133.0	112.0	243.5	2.7	49.2
1,000 to 2,499 employees	-	4	9.6	104.0	9.0	15.8	91.3	178.2	121.7	309.4	3.2	57.8
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	12	.1	.7	.1	.1	.6	1.0	1.4	2.4	(Z)	.7
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS												
Total	E2	422	31.1	420.9	25.7	50.9	309.1	850.4	1 669.0	2 538.8	68.8	254.8
Establishments with an average of—												
1 to 4 employees	E9	77	.1	1.8	.1	.2	1.6	3.3	6.8	10.3	.2	1.3
5 to 9 employees	E7	48	.3	4.8	.3	1.3	3.5	8.6	17.5	26.3	.7	3.3
10 to 19 employees	E6	75	1.0	13.8	.8	1.7	10.1	25.0	48.6	76.8	2.3	7.6
20 to 49 employees	E3	78	2.3	29.6	1.8	3.6	20.9	58.3	109.1	166.4	5.1	19.0
50 to 99 employees	E2	49	3.7	50.0	3.0	6.2	35.2	93.2	167.6	263.9	6.9	26.0
100 to 249 employees	E2	64	10.1	124.1	8.4	16.0	93.6	248.7	521.3	781.4	24.4	69.7
250 to 499 employees	E1	23	7.4	100.9	6.1	11.9	70.8	183.3	459.3	638.6	15.6	64.3
500 to 999 employees	E1	5	2.9	39.4	2.5	4.9	30.8	68.5	170.4	240.5	6.4	23.1
1,000 to 2,499 employees	-	3	3.2	56.5	2.7	5.2	42.6	161.4	168.5	334.6	7.2	40.6
Covered by administrative records ²	E9	99	.8	9.5	.6	1.3	7.4	17.6	38.6	56.6	1.5	6.4
Industry 2257-11, Manufacturers												
Total	E2	197	21.4	285.3	17.6	35.3	210.1	533.9	1 299.8	1 848.9	45.9	187.4
Establishments with an average of—												
1 to 4 employees	E9	27	(Z)	.6	(Z)	.1	.5	1.1	2.3	3.4	.1	.3
5 to 9 employees	E7	16	.1	1.9	.1	1.0	1.4	3.1	7.5	10.6	.4	1.1
10 to 19 employees	E6	29	.4	5.2	.3	.6	3.9	9.4	20.7	33.2	1.4	3.5
20 to 49 employees	E2	35	1.1	13.3	.8	1.5	9.5	26.4	60.0	87.0	3.7	11.1
50 to 99 employees	E2	23	1.8	23.7	1.5	2.9	17.6	49.2	110.5	161.9	3.8	18.1
100 to 249 employees	E3	39	6.2	76.9	5.1	9.9	56.8	147.8	390.2	544.6	11.3	54.1
250 to 499 employees	E1	21	11.7	163.7	9.8	19.2	120.3	296.9	708.5	1 008.2	25.2	99.1
500 to 999 employees	E1	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	46	.4	4.7	.3	.6	3.6	8.2	18.3	26.7	.7	2.9
Industry 2257-22, Converters												
Total	E3	47	2.9	47.0	2.3	4.5	33.6	167.7	235.9	406.4	14.7	49.1
Establishments with an average of—												
1 to 4 employees	E9	12	(Z)	.3	(Z)	(Z)	.3	.7	1.8	2.7	(Z)	.5
5 to 9 employees	E7	7	(Z)	.8	(Z)	.1	.5	2.3	4.8	7.1	.1	1.4
10 to 19 employees	E6	5	.1	1.6	.1	.1	.9	5.3	16.9	22.2	.5	2.1
20 to 49 employees	E3	10	.2	3.6	.2	.3	1.7	12.7	37.5	48.6	.2	6.0
50 to 99 employees	E1	4	.3	4.3	.2	.5	1.9	7.4	27.5	35.5	.3	3.5
100 to 249 employees	E2	8	2.3	36.4	1.8	3.4	28.3	139.3	147.4	290.3	13.6	35.6
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	17	.1	1.1	.1	.1	.9	2.3	5.0	7.3	.2	.8

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E1	All establish- ments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures (million dollars)	End-of- year inven- tories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS—Con.												
Industry 2257-33, Contractors												
Total	E2	178	6.8	88.6	5.7	11.1	65.3	148.8	133.4	283.5	8.2	18.3
Establishments with an average of—												
1 to 4 employees	E9	38	.1	.9	(Z)	.1	.8	1.6	2.6	4.2	.1	.4
5 to 9 employees	E9	25	.2	2.1	.1	.3	1.6	3.1	5.3	8.6	.2	.8
10 to 19 employees	E8	41	.6	7.0	.5	.9	5.3	10.3	11.0	21.4	.5	1.9
20 to 49 employees	E5	33	1.0	12.7	.8	1.7	9.7	19.2	11.6	30.8	1.1	1.9
50 to 99 employees	E2	22	1.6	22.0	1.3	2.7	15.7	36.6	29.6	66.5	2.7	4.3
100 to 249 employees	-	17	3.4	43.9	2.9	5.5	32.3	78.0	73.4	152.0	3.5	9.0
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	36	.3	3.7	.2	.5	2.9	7.1	15.3	22.6	.6	2.7
INDUSTRY 2258, WARP KNIT FABRIC MILLS												
Total	-	207	19.0	261.1	15.2	29.7	187.2	533.9	904.0	1 465.8	44.0	182.4
Establishments with an average of—												
1 to 4 employees	E9	28	(Z)	.6	(Z)	.1	.6	1.1	2.4	3.5	.1	.3
5 to 9 employees	E7	16	.1	2.0	.1	.2	1.5	2.9	7.7	11.1	.4	.9
10 to 19 employees	E2	33	.5	6.5	.4	.8	4.7	10.7	15.7	26.5	1.0	3.2
20 to 49 employees	-	49	1.7	23.8	1.4	2.7	17.1	48.3	69.8	119.5	2.1	11.6
50 to 99 employees	E2	32	2.2	29.6	1.8	3.7	21.7	53.9	89.6	143.4	6.3	15.1
100 to 249 employees	E2	26	3.9	52.5	3.1	6.0	37.6	87.6	184.3	275.9	6.3	34.1
250 to 499 employees	-	18	5.9	85.7	4.7	9.3	60.2	191.2	312.1	519.3	60.2	
500 to 999 employees	-	4	4.7	60.3	3.8	6.9	43.9	138.3	222.3	366.4	16.7	57.1
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	13	(Z)	.3	(Z)	.1	.3	.7	1.5	2.2	.1	.2
Industry 2258-11, Manufacturers												
Total	-	116	14.6	200.8	11.8	22.9	145.9	430.1	803.7	1 259.7	36.4	162.6
Establishments with an average of—												
1 to 4 employees	E9	13	(Z)	1.1	(Z)	.1	.8	.9	4.8	6.1	1.0	-.7
5 to 9 employees	E8	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E1	18	.3	3.8	.2	.4	2.7	6.2	10.3	16.6	.8	2.3
20 to 49 employees	-	26	.9	13.6	.8	1.5	9.3	26.7	50.1	77.4	1.4	10.0
50 to 99 employees	E2	15	1.0	12.6	.8	1.6	9.4	24.9	61.2	85.7	5.0	6.9
100 to 249 employees	E2	19	2.8	39.6	2.3	4.6	29.4	64.4	159.2	227.0	4.2	28.5
250 to 499 employees	-	14	4.9	69.7	3.9	7.8	50.4	168.7	296.0	480.4	8.2	57.1
500 to 999 employees	-	4	4.7	60.3	3.8	6.9	43.9	138.3	222.3	366.4	16.7	57.1
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	11	(Z)	.3	(Z)	(Z)	.2	.5	1.2	1.8	.1	.2
Industry 2258-22, Converters												
Total	E1	16	.6	7.9	.4	.8	4.4	21.8	45.3	67.0	1.7	6.1
Establishments with an average of—												
1 to 4 employees	E1	4	.1	1.3	.1	1.7	.7	6.4	14.3	20.8	1.7	-.7
5 to 9 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	4	.5	6.6	.4	.7	3.8	15.3	31.0	46.2	5.3	
100 to 249 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	11	(Z)	.3	(Z)	(Z)	.2	.5	1.2	1.8	.1	.2
Industry 2258-33, Contractors												
Total	E1	75	3.8	52.4	3.0	6.0	36.9	82.1	54.9	139.1	5.9	13.7
Establishments with an average of—												
1 to 4 employees	E9	11	(Z)	.3	(Z)	(Z)	.3	.5	1.3	1.8	(Z)	.1
5 to 9 employees	E8	.1	1.1	.1	.1	.1	.8	2.2	3.1	5.3	5.8	.3
10 to 19 employees	E5	.9	11.8	.8	1.4	9.1	20.0	11.8	32.6	(D)	1.8	
20 to 49 employees	E1	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	13	2.8	39.3	2.2	4.4	20.0	59.5	39.1	32.3	(D)	11.4
100 to 249 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2259, KNITTING MILLS, N.E.C.												
Total	E2	72	2.9	33.8	2.5	4.7	25.7	55.4	57.5	114.5	1.5	27.3
Establishments with an average of—												
1 to 4 employees	E9	20	(Z)	.5	(Z)	.1	.5	1.1	1.1	2.3	(Z)	.8
5 to 9 employees	E9	10	.1	.8	.1	.1	.7	1.9	2.0	4.0	.1	1.5
10 to 19 employees	E7	13	.2	1.8	.2	.3	1.5	4.8	5.1	10.0	.2	3.0
20 to 49 employees	E4	15	.5	6.5	.4	.8	4.5	9.4	11.4	21.2	.3	5.5
50 to 99 employees	E1	8	.5	6.3	.5	.9	4.5	9.4	7.9	17.2	.2	3.0
100 to 249 employees	-	4	1.6	17.9	1.4	2.5	13.9	28.8	30.0	59.8	.8	13.5
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	16	.1	.5	.1	.1	.4	.9	.9	1.8	(Z)	.7

Note: For qualifications of data, see footnotes on table 1a. Data shown as a (D) are included in underscored figures above.

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1982 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective size classes shown.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1982

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing data for individual companies. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2251	Women's hosiery, except socks: Entire industry ----- Establishments with 75 percent specialization or more -----	206 182	30.2 25.7	311.1 267.9	26.7 22.7	49.6 42.5	241.5 206.5	777.4 697.5	636.8 552.7	1 411.3 1 248.9	26.0 19.9
22512	Women's and misses' finished seamless hosiery, full-length and knee-length (except pantyhose): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	24	4.7	47.1	4.3	7.9	39.2	72.7	111.5	183.7	3.3
22516	Women's and misses' finished pantyhose: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	50	21.0	223.4	18.4	34.2	167.9	640.4	451.5	1 089.6	19.5
22517	Women's and misses' hosiery shipped in the greige: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	26	1.9	17.9	1.7	3.2	15.2	28.9	49.1	77.6	1.6
2252	Hosiery, n.e.c.: Entire industry ----- Establishments with 75 percent specialization or more -----	420 382	32.6 26.4	326.5 263.8	28.8 23.3	51.2 41.8	258.1 207.0	617.3 509.0	832.2 722.4	1 443.4 1 228.2	31.4 24.8
22522	Men's finished seamless hosiery (sizes 10 or larger): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	124	15.9	165.1	14.2	25.5	132.2	318.3	469.7	782.9	16.2
22523	All other finished seamless hosiery: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	85	9.0	89.6	8.0	14.4	70.4	177.1	271.7	445.2	8.7
22524	Seamless hosiery shipped in the greige, except women's full-length and knee-length: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	59	3.1	30.5	2.7	5.1	24.6	47.4	104.7	151.3	2.7
		56	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2253	Knit outerwear mills: Entire industry ----- Establishments with 75 percent specialization or more -----	923 873	66.8 59.9	741.4 661.8	55.9 50.2	102.0 91.1	539.8 488.1	1 704.8 1 524.5	1 476.8 1 348.7	3 182.4 2 872.6	53.5 49.2
22531	Sweaters, knit jackets, and jerseys made from yarns or fabric knit in same establishment: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	147	16.8	196.5	13.6	25.3	132.5	421.7	498.5	914.7	16.9
22532	Knit outerwear sport shirts, from fabric knit in same establishment: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	132	12.1	148.9	10.2	19.3	102.8	310.4	373.1	678.5	9.2
22533	All other knit outerwear products (from yarns or fabrics knit in same establishment): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	50	15.1	156.1	13.2	23.7	122.6	426.1	306.3	729.2	9.0
		104	14.3	178.9	11.5	21.2	118.6	458.2	431.2	888.9	17.2
		88	9.4	111.8	7.5	13.4	73.9	285.6	237.1	528.7	8.6
22539	Contract and commission receipts for knitting only or knitting and finishing outerwear products: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	298	10.4	103.2	8.8	16.3	84.7	164.3	27.5	192.6	3.3
		297	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2254	Knit underwear mills: Entire industry ----- Establishments with 75 percent specialization or more -----	84 62	22.3 15.3	232.3 158.8	20.0 13.9	35.3 24.5	191.7 134.8	446.2 323.5	369.7 245.1	829.9 584.0	9.3 6.6
22541	Men's and boys' knit underwear and nightwear, from yarns or fabrics knit in same establishment: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	33	15.1	160.1	13.7	23.9	132.9	347.6	263.6	618.8	6.9
22542	Women's and children's knit underwear from fabrics knit in same establishment: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	22	11.2	118.7	10.4	18.3	103.9	251.7	178.0	442.0	5.2
		15	5.2	52.8	4.6	8.4	43.0	72.4	80.4	156.0	1.1
		11	2.2	21.3	1.9	3.3	16.2	36.3	28.5	66.7	.2
22543	Women's and children's knit nightwear, from fabrics knit in same establishment: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	7	1.4	14.3	1.1	2.1	11.2	20.8	21.3	43.5	1.0
		2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2257	Circular knit fabric mills: Entire industry ----- Establishments with 75 percent specialization or more -----	422 393	31.1 27.6	420.9 364.6	25.7 22.8	50.9 45.8	309.1 268.3	850.4 703.3	1 669.0 1 459.9	2 538.8 2 178.0	68.8 62.9
22571	Welt knit fabric greige goods, except hosiery: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	34	4.6	60.0	3.9	7.4	46.6	101.1	353.1	456.1	10.9
22572	Welt knit underwear and nightwear finished fabric, except hosiery: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	28	3.7	48.1	3.1	5.9	37.9	79.4	299.0	380.6	9.1
		7	1.8	27.1	1.5	3.4	21.2	58.7	91.3	151.2	5.2
		5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

**Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1982—
Con.**

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing data for individual companies. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2257	Circular knit fabric mills—Con.										
22574	Weft knit high pile finished fabric (including overcoating, topcoating, footwear lining, etc.): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	9 8	2.9 (D)	43.4 (D)	2.3 (D)	4.4 (D)	29.7 (D)	74.9 (D)	142.2 (D)	222.9 (D)	2.5 (D)
22575	Weft single knit outerwear finished fabric, except hosiery: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	41 28	6.7 3.8	96.7 49.7	5.6 3.3	11.1 6.4	72.9 38.5	253.6 97.9	498.5 281.6	760.9 387.9	13.8 7.2
22577	Weft double knit outerwear finished fabric (including interlock): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	28 21	4.2 2.6	56.5 34.7	3.3 1.9	6.9 4.7	36.2 22.7	115.4 74.1	297.0 167.2	412.7 241.8	18.4 16.0
22578	All other weft knit finished fabric, except hosiery: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	19 17	1.8 (D)	22.4 (D)	1.5 (D)	2.7 (D)	15.4 (D)	41.9 (D)	67.3 (D)	109.0 (D)	5.7 (D)
22579	Contract and commission receipts for knitting only or knitting and finishing: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	110 107	6.1 (D)	79.1 (D)	5.2 (D)	10.3 (D)	60.2 (D)	138.3 (D)	99.8 (D)	238.3 (D)	7.2 (D)
2258	Warp knit fabric mills: Entire industry ----- Establishments with 75 percent specialization or more -----	207 192	19.0 17.9	261.1 247.1	15.2 14.3	29.7 27.9	187.2 176.5	533.9 501.3	904.0 850.6	1 465.8 1 379.0	44.0 42.0
22581	Warp knit fabric greige goods (tricot, raschel, simplex, and milanese): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	63 59	5.4 (D)	72.6 (D)	4.7 (D)	8.8 (D)	54.9 (D)	119.0 (D)	273.9 (D)	392.0 (D)	12.7 (D)
22582	Warp knit underwear and nightwear finished fabric: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	20 16	4.2 1.8	62.3 24.1	3.2 1.5	6.1 2.9	42.8 17.5	130.5 37.7	235.7 66.1	378.7 106.0	16.9 2.7
22583	Warp knit outerwear fabric (including dress, blouse, shirting, slack, etc.): Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	12 6	2.9 (D)	37.6 (D)	2.2 (D)	4.7 (D)	27.9 (D)	118.2 (D)	197.7 (D)	326.2 (D)	3.0 (D)
22588	All other warp knit finished fabric: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	14 12	2.5 (D)	33.8 (D)	2.0 (D)	3.8 (D)	24.1 (D)	78.0 (D)	118.7 (D)	200.9 (D)	5.2 (D)
22589	Contract and commission receipts for knitting only or knitting and finishing: Establishments with this product class primary ----- Establishments with 75 percent specialization or more in class -----	52 48	3.2 (D)	44.4 (D)	2.5 (D)	5.2 (D)	30.9 (D)	69.5 (D)	40.7 (D)	111.6 (D)	4.9 (D)
2259	Knitting mills, n.e.c.: Entire industry ----- Establishments with 75 percent specialization or more -----	72 70	2.9 2.9	33.8 33.7	2.5 2.5	4.7 4.7	25.7 25.5	55.4 55.0	57.5 56.6	114.5 113.2	1.5 1.5

Note: For qualifications of data, see footnotes on table 1a.

Table 5b. Industry-Product Analysis—Value of Shipments and Primary Product Shipments, Specialization and Coverage Ratios for the Industry: 1982 and Earlier Census Years

[An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and product group code	Industry and census year	Value of shipments					Value of primary product shipments				
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B ÷ Col. B+C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B ÷ Col. F (percent)	
		A	B	C	D	E	F	G	H	I	
2251	Women's hosiery, except socks	1982--	1 411.3	1 296.2	69.6	45.5	95	1 425.3	1 296.2	129.1	91
		1977--	871.2	775.2	72.9	23.1	91	819.1	775.2	43.9	95
		1972--	984.7	875.7	59.2	49.8	94	899.0	875.7	23.3	97
2252	Hosiery, n.e.c.	1982--	1 443.4	1 258.7	109.3	75.4	92	1 324.5	1 258.7	65.9	95
		1977--	921.3	858.3	31.8	31.1	96	893.6	858.3	35.3	96
		1972--	600.6	550.4	26.6	23.6	95	588.0	550.4	37.6	94
2253	Knit outerwear mills	1982--	3 182.4	2 972.6	162.8	47.0	95	15 562.5	2 972.6	12 416.8	153
		1977--	2 335.9	2 035.5	223.4	77.1	90	3 832.0	2 035.5	1 796.5	53
		1972--	1 703.8	1 510.3	122.6	70.9	92	2 393.6	1 510.3	883.3	62
2254	Knit underwear mills	1982--	829.9	714.6	101.7	13.7	88	767.4	714.6	52.8	93
		1977--	648.9	497.0	127.0	25.0	80	579.5	497.0	82.5	86
		1972--	544.6	450.4	50.6	43.6	90	481.5	450.4	31.1	94
2257	Circular knit fabric mills	1982--	2 538.8	2 323.6	202.8	12.4	92	2 494.9	2 323.6	171.3	93
		1977--	3 169.4	2 730.8	317.4	121.2	90	3 111.2	2 730.8	380.4	88
		1972--	2 808.8	2 513.5	194.2	101.1	93	2 770.2	2 513.5	256.7	91
2258	Warp knit fabric mills	1982--	1 465.8	1 416.9	43.8	5.1	97	1 567.5	1 416.9	150.6	90
		1977--	1 407.2	1 297.9	95.2	14.1	93	1 568.4	1 297.9	270.5	83
		1972--	987.7	879.4	95.7	12.6	90	928.6	879.4	49.2	95
2259	Knitting mills, n.e.c.	1982--	114.5	108.5	3.3	2.8	97	133.5	108.5	25.0	81
		1977--	95.7	91.3	2.4	2.0	97	112.9	91.3	21.6	81
		1972--	73.1	67.7	4.8	.6	93	87.1	67.7	19.4	78

¹Data include shipments of sweaters and knit sport shirts made in cut-and-sew shops (primary products of industries 2321, 2329, 2331, 2339, 2361, and 2369), as well as shipments of these products made in knitting mills.

Table 5c-1. Industry-Product Analysis—Shipments by Product Class and Industry: 1982

(Million dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least \$2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed in table 5c-2 if they account for more than \$5 million of products primary to this chapter. For meaning of abbreviations and symbols, see explanatory text. For explanation of terms, see appendixes]

1982 product code	Product group, product class, and miscellaneous receipts	All industries	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)	Knit underwear mills (SIC 2254)	Circular knit fabric mills (SIC 2257)	Warp knit fabric mills (SIC 2258)	Knitting mills, n.e.c. (SIC 2259)	Other industries
	Total	(X)	1 411.3	1 443.4	3 182.4	829.9	2 538.8	1 465.8	114.5	(X)
	Primary products	(X)	1 296.2	1 258.7	2 972.6	714.6	2 323.6	1 416.9	108.5	(X)
	Secondary products	(X)	69.6	109.3	162.8	101.7	202.8	43.8	3.3	(X)
	Miscellaneous receipts	(X)	45.5	75.4	47.0	13.7	12.4	5.1	2.8	(X)
2251-22512	Women's hosiery, except socks	1 425.3	1 296.2	(D)	(D)	(D)	-	-	-	(D)
	Women's and misses' finished seamless hosiery, full-length and knee-length (except pantyhose)	353.4	277.0	(D)	(D)	-	-	-	-	-
22516	Women's and misses' finished pantyhose	943.2	897.6	(D)	(D)	-	-	-	-	(D)
22517	Women's and misses' hosiery shipped in the greige	85.6	(D)	(D)	-	-	-	-	-	-
22510	Women's and misses' hosiery, except socks, n.s.k.	43.1	(D)	-	-	(D)	-	-	-	-
2252-22522	Hosiery, n.e.c.	1 324.5	(D)	1 258.7	(D)	-	(D)	-	-	(D)
	Men's finished seamless hosiery (sizes 10 or larger)	655.0	(D)	632.0	(D)	-	(D)	-	-	(D)
22523	All other finished seamless hosiery	452.1	30.6	(D)	(D)	-	(D)	-	-	(D)
22524	Seamless hosiery shipped in the greige, except women's full-length and knee-length	155.6	1.4	154.3	-	-	-	-	-	-
22520	Hosiery, n.e.c., n.s.k., except women's seamless full-length hosiery and pantyhose	61.9	-	(D)	-	-	-	-	-	(D)
2253-22531	Knit outerwear mills	'5 562.5	(D)	(D)	2 972.6	71.8	(D)	-	(D)	'2 416.7
	Sweaters, knit jackets, and jerseys made from yarns or fabric knit in same establishment	21 033.2	-	(D)	806.3	(D)	-	-	-	2215.6
22532	Knit outerwear sport shirts, from fabric knit in same establishment (also see codes 23212, 23312, and 23612)	'3 200.9	-	-	927.3	(D)	(D)	-	-	'2 192.7
22533	All other knit outerwear products (from yarns or fabrics knit in same establishment)	856.6	(D)	(D)	775.0	30.5	(D)	-	(D)	8.4
22539	Contract and commission receipts for knitting only or knitting and finishing outerwear products	209.8	(D)	(D)	(D)	(D)	3.6	-	-	-
22530	Knit outerwear mill products, n.s.k.	262.0	(D)	-	(D)	(D)	(D)	-	-	-

See footnotes at end of table.

Table 5c-1. Industry-Product Analysis—Shipments by Product Class and Industry: 1982—Con.

[Million dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least \$2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed in table 5c-2 if they account for more than \$5 million of products primary to this chapter. For meaning of abbreviations and symbols, see explanatory text. For explanation of terms, see appendixes]

1982 product code	Product group, product class, and miscellaneous receipts	All industries	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)	Knit underwear mills (SIC 2254)	Circular knit fabric mills (SIC 2257)	Warp knit fabric mills (SIC 2258)	Knitting mills, n.e.c. (SIC 2259)	Other industries
2254-22541	Knit underwear mills Men's and boys' knit underwear and nightwear, from yarns or fabrics knit in same establishment	767.4	-	(D)	46.2	714.6	-	(D)	-	(D)
22542	Women's and children's knit underwear from fabrics knit in same establishment (also see code 23412)	574.8	-	-	(D)	538.0	-	(D)	-	-
22543	Women's and children's knit nightwear, from fabrics knit in same establishment (also see code 23413)	125.3	-	-	(D)	(D)	-	-	-	-
22540	Knit underwear and nightwear, n.s.k., made from yarns or fabric knit in same establishment	61.9	-	(D)	(D)	(D)	-	-	-	-
		5.4	-	-	-	(D)	-	-	-	(D)
2257-22571	Circular knit fabric mills Weft knit fabric greige goods, except hosiery	2 494.9	-	(D)	41.2	(D)	2 323.6	(D)	(D)	108.5
22572	Weft knit underwear and nightwear finished fabric, except hosiery	467.6	-	-	(D)	(D)	427.5	-	(D)	(D)
22574	Weft knit high pile finished fabric (including overcoating, topcoating, footwear lining, etc.)	126.3	-	-	(D)	-	(D)	-	-	(D)
22575	Weft single knit outerwear finished fabric, except hosiery	147.4	-	-	-	-	138.9	-	-	8.5
22577	Weft double knit outerwear finished fabric (including interlock)	735.0	-	-	(D)	(D)	696.1	-	-	(D)
22578	All other weft knit finished fabric, except hosiery	412.5	-	-	(D)	-	(D)	-	-	(D)
22579	Contract and commission receipts for knitting only or knitting and finishing	146.4	-	(D)	-	-	128.0	(D)	-	(D)
22570	Circular knit fabric, n.s.k.	282.5	-	-	13.7	(D)	255.4	(D)	-	(D)
		177.1	-	-	(D)	-	163.5	(D)	-	(D)
2258-22581	Warp knit fabric mills Warp knit fabric greige goods (tricot, raschel, simplex, and milanese)	1 567.5	-	-	4.6	(D)	(D)	1 416.9	.8	101.8
22582	Warp knit underwear and nightwear finished fabric	445.5	-	-	(D)	-	(D)	397.1	-	(D)
22583	Warp knit outerwear fabric (including dress, blouse, shirting, slack, etc.)	321.0	-	-	-	(D)	-	(D)	-	(D)
22588	All other warp knit finished fabric	261.2	-	-	(D)	(D)	(D)	249.7	-	-
22589	Contract and commission receipts for knitting only or knitting and finishing	379.6	-	-	-	-	-	313.0	-	66.6
22580	Warp knit fabric, n.s.k.	114.5	-	-	(D)	-	(D)	100.0	-	10.3
		45.7	-	-	(D)	-	(D)	-	-	(D)
22590	Knit gloves and other knit products, n.e.c.	133.5	-	-	(D)	-	(D)	-	108.5	(D)
OTHER SHIPMENTS BY FOUR-DIGIT PRODUCT GROUP										
2221-	Weaving mills, manmade fiber and silk	(X)	-	-	-	-	(D)	(D)	-	(X)
2262-	Finishing plants, manmade fiber and silk	(X)	-	-	-	-	(D)	(D)	-	(X)
2279-	Carpets, rugs, and mats, n.e.c.	(X)	-	-	-	-	(D)	-	-	(X)
2281-	Yarn mills, except wool	(X)	-	(D)	(D)	-	(D)	(D)	-	(X)
2282-	Throwing and winding mills	(X)	-	(D)	(D)	-	-	(D)	-	(X)
2291-	Felt goods, except woven felts and hats	(X)	-	-	-	-	(D)	-	-	(X)
2331-	Women's and misses' blouses and waists	(X)	(D)	-	(D)	-	-	-	-	(X)
2392-	House furnishings, n.e.c.	(X)	-	-	-	(D)	-	-	-	(X)
2395-	Pleating and stitching	(X)	-	-	-	-	(D)	-	-	(X)
2397-	Schiffli machine embroideries	(X)	-	-	-	-	-	(D)	-	(X)
MISCELLANEOUS RECEIPTS										
93000 00	Receipts for work done for others on their materials	(X)	19.1	19.8	7.7	5.9	3.4	(D)	-	(X)
99980 00	Miscellaneous receipts, including receipts for repair work, sales of scrap and refuse, etc.	(X)	.1	.9	4.9	.6	2.4	1.3	(D)	(X)
99989 00	Sales of products bought and resold without further manufacture, processing, or assembly at establishment	(X)	26.3	54.7	34.5	7.2	6.6	(D)	(D)	(X)

¹Data include \$2,408 million of shipments of sweaters and knit sport shirts made in cut-and-sew shops (primary products of industries 2321, 2329, 2331, 2339, 2361, and 2369), as well as these products made in knitting mills.

²Data include \$216 million of shipments of sweaters made in cut-and-sew shops (primary products of product classes 23292, 23397, and 23691), as well as these products made in knitting mills.

³Data include \$2,193 million of shipments of knit sport shirts made in cut-and-sew shops (prime products of product classes 23212, 23312, and 23612), as well as these products made in knitting mills.

Table 5c-2. Industry-Product Analysis—Other Industries With Shipments of Primary Products: 1982

[Million dollars. Table is a continuation of table 5c-1 and shows where products of industries in this chapter (referred to as primary products and listed in table 6a) are made. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column of table 5c-1. Specified "Other industries" are listed in this table if they account for more than \$5 million of products primary to this chapter. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1982 product code	Other industries	Value	1982 product code	Other industries	Value
2253-	KNIT OUTERWEAR MILLS		2257-	CIRCULAR KNIT FABRIC MILLS—Con.	
	2389 Apparel and accessories, n.e.c. -----	(D)		2281 Yarn mills, except wool----- 3069 Fabricated rubber products, n.e.c.----- 3842 Surgical appliances and supplies-----	(D) (D) (D)
2257-	CIRCULAR KNIT FABRIC MILLS		2258-	WARP KNIT FABRIC MILLS	
	2221 Weaving mills, manmade fiber and silk----- 2231 Weaving and finishing mills, wool----- 2241 Narrow fabric mills----- 2262 Finishing plants, manmade -----	30.6 (D) 12.7 26.5		2221 Weaving mills, manmade fiber and silk----- 2241 Narrow fabric mills----- 2262 Finishing plants, manmade ----- 3842 Surgical appliances and supplies-----	(D) 9.5 (D) (D)

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
2251- --	WOMEN'S AND MISSES' HOSIERY						
22512 --	Total -----	(NA)	(X)	1 425.3	(NA)	(X)	819.1
22512 11	Women's and misses' finished seamless hosiery, full-length and knee-length (except pantyhose) -----	(NA)	(X)	353.4	(NA)	(X)	(D)
	Misses' finished knee-length socks, all fibers (including campus, bermuda, etc.), sizes 8-11 ----- mil doz pairs--	37	13.8	112.5	10	2.1	14.3
22512 17	Seamless stockings, full-length and knee-length, finished -----	(NA)	(X)	-	(NA)	(X)	178.6
	Knee-length, stretch and nonstretch ----- mil doz pairs--	39	31.3	141.6	47	28.4	100.0
22512 21	Full-length, nonfancy ----- do--	(NA)	-	-	(NA)	(D)	(D)
22512 36	Under 30 denier, stretch and nonstretch ----- do--	21	7.9	56.9	32	8.3	49.6
22512 37	30 denier or heavier, excluding support ----- do--	4	(D)	(D)	(NA)	(D)	(D)
22512 38	Support ----- do--	10	.5	6.5	7	1.1	10.0
22512 45	All other full length, nonfancy ----- do--	4	(D)	(D)	4	(D)	(D)
	Finished full-fashioned hosiery, all lengths and denier and other full-length stockings, including fancy stockings 370-needle and finer and stockings knit on less than 370-needle ----- do--	7	1.7	27.8	(NA)	(D)	(D)
22512 00	Women's and misses' finished seamless hosiery, full-length and knee-length, n.s.k. -----	(NA)	(X)	-	(NA)	(X)	(*)
22516 --	Women's and misses' finished pantyhose -----	(NA)	(X)	943.2	(NA)	(X)	(D)
22516 12	Under 30 denier, sheer stretch ----- mil doz pairs--	41	41.7	313.4	58	50.0	402.5
22516 14	30 denier or heavier, opaque stretch ----- do--	26	14.5	208.9	31	8.3	107.6
22516 16	Elastomer:						
22516 18	Control top ----- do--	26	17.6	187.6	(NA)	(D)	(D)
22516 19	Leg support ----- do--	24	12.1	216.7	(NA)	(D)	(D)
22516 00	Other miscellaneous sheers, including fancies, sewed on legs, waist connected legs, replaceable legs, nonstretch, etc., and waist highs knit on less than 370-needle ----- do--	6	1.2	13.7	(NA)	(X)	(*)
	Women's and misses' finished pantyhose, n.s.k. -----	(NA)	(X)	2.9	(NA)	(X)	3.1
22517 --	Women's and misses' hosiery shipped in the greige -----	(NA)	(X)	85.6	(NA)	(X)	(D)
22517 15	Full-fashioned and seamless full-length and knee-length (except pantyhose) ----- mil doz pairs--	18	10.9	27.5	(NA)	(D)	(D)
22517 17	Pantyhose shipped in the greige ----- do--	21	11.7	57.7	14	4.5	22.4
22517 00	Women's and misses' hosiery shipped in the greige, n.s.k. -----	(NA)	(X)	.4	(NA)	(X)	5.1
22510 00	Women's full-length and knee-length hosiery, seamless and full-fashioned, n.s.k., typically for establishments with 20 employees or more (see note) -----	(NA)	(X)	26.4	(NA)	(X)	27.1
22510 02	Women's full-length and knee-length hosiery, seamless and full-fashioned, n.s.k., typically for establishments with less than 20 employees (see note) -----	(NA)	(X)	16.7	(NA)	(X)	10.2

See footnotes at end of table.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
HOSIERY, N.E.C.							
2252- --	Total	(NA)	(X)	1 324.5	(NA)	(X)	893.6
22522 --	Men's finished seamless hosiery (sizes 10 and up)	(NA)	(X)	655.0	(NA)	(X)	464.6
22522 23	Anklets (including slack socks, crew socks, athletic socks, etc.); Natural fibers (cotton and/or wool, etc.)	mil doz pairs--	70	16.7	139.7	79	*25.1
22522 25	Manmade fibers	do--	80	34.9	295.1	92	38.1
22522 33	Midcalf, including half hose; Natural fibers (cotton and/or wool, etc.)	do--	30	4.3	37.3		
22522 35	Manmade fibers	do--	35	6.6	51.4	26	7.4
22522 43	Knee (bermuda, campus, etc.); Natural fibers (cotton and/or wool, etc.)	do--	29	3.1	33.2		
22522 45	Manmade fibers	do--	30	7.4	56.6	25	9.7
22522 87	All others, including foot socks	do--	6	3.2	31.0		
22522 00	Men's finished seamless hosiery, n.s.k.	(NA)	(X)	10.6	5	(X)	3.3
22523 --	All other finished seamless hosiery	(NA)	(X)	452.1	(NA)	(X)	274.3
	Women's, misses', girls', and boys' (sizes 8-11); Anklets and sheer anklets (including slack socks, crew socks, athletic socks, etc.); Natural fibers (cotton and/or wool, etc.)	mil doz pairs--					
22523 11	Manmade fibers	do--	57	11.5	72.2	39	**8.7
22523 17	Girls' and boys' (excluding anklets); Knee (including bermuda, campus, etc.); Natural fibers (cotton and/or wool, etc.)	do--	57	17.3	122.5	54	21.8
22523 21	Manmade fibers	do--	23	2.0	14.1	18	**2.2
22523 27	All others (including foot socks, stockings, and waist-highs)	do--	30	8.9	65.0	30	10.2
22523 31	Infants' and children's (sizes 3 to 8 1/2); Anklets (including slack socks, crew socks, athletic socks, etc.); Natural fibers (cotton and/or wool, etc.)	do--	17	2.8	31.0	7	1.5
22523 51	Manmade fibers	do--	28	6.2	33.3	23	**6.8
22523 57	Knee (including bermuda, campus, etc.)	do--	36	10.1	54.3	36	10.6
22523 61	All other (including foot socks, stockings, and waist-highs)	do--	18	3.7	21.4	8	.8
22523 81	All other finished seamless hosiery, n.s.k.	(NA)	(X)	4.6	31.0	5	.6
22523 00	Seamless hosiery shipped in the greige (except women's full-length and knee-length)	(NA)	(X)	7.2		7	(X)
22524 25	Men's, all types (sizes 10 and up)	mil doz pairs--	57	*21.1	113.2	45	*16.1
22524 41	Women's and misses' (except full-length and knee-length); girls' and boys'	do--	25	6.7	27.2	20	5.8
22524 51	Children's and infants'	do--	14	3.2	13.3	16	5.1
22524 00	Seamless hosiery, except women's full-length and knee-length, shipped in the greige, n.s.k.	(NA)	(X)	1.9	2	(X)	.7
22520 00	Hosiery, except women's full-length and knee-length, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	34.2	(NA)	(X)	33.1
22520 02	Hosiery, except women's full-length, and knee-length, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	27.7	(NA)	(X)	28.1
KNIT OUTERWEAR MILLS							
2253- --	Total	(NA)	(X)	5 562.5	(NA)	(X)	3 832.0
23212 --	Made in knitting mills	(NA)	(X)	3 154.2	(NA)	(X)	2 136.6
23292 60	Made in cut-and-sew shops	(NA)	(X)	2 408.3	(NA)	(X)	1 695.4
23312 --	Sweaters	(NA)	(X)	1 033.2	(NA)	(X)	766.7
23397 30	Men's and boys': As reported in the census of manufactures	1,000 doz--	(NA)	*5352.0	403.7	(NA)	(6)
23612 --	As reported in Current Industrial Report MA-23E, Men's and Boys' Outerwear	do--	(NA)	*3 596	387.1	(NA)	*3 399
23691 70	Men's sweaters, including sweater vests, knit cardigans, and pullovers	do--	(NA)	3 235	361.8	(NA)	3 031
22531 --	All cotton and chiefly cotton	do--	(NA)	151	(X)	(NA)	234.3
22531 24	All manmade and chiefly manmade fibers	do--	(NA)	1 574	(X)	(NA)	
22531 22	All wool and chiefly wool	do--	(NA)	842	(X)	(NA)	3 031
22531 25	All other fibers	do--	(NA)	(7)	(X)	(NA)	(X)
22531 26	Fibers, n.s.k.	do--	(NA)	'668	(X)	(NA)	
22531 07	Boys' sweaters, including sweater vests, knit cardigans, and pullovers	do--	(NA)	361	25.3	(NA)	368
22531 32	All cotton and chiefly cotton	do--	(NA)	(7)	(X)	(NA)	21.6
22531 33	All manmade and chiefly manmade	do--	(NA)	272	(X)	(NA)	
22531 31	All wool and chiefly wool	do--	(NA)	(7)	(X)	(NA)	368
22531 34	All other fibers	do--	(NA)	(7)	(X)	(NA)	(X)
22531 35	Fibers, n.s.k.	do--	(NA)	'89	(X)	(NA)	

See footnotes at end of table.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
KNIT OUTERWEAR MILLS—Con.							
22531 —							
23397 30	Sweaters—Con.						
23292 60							
23691 70							
22531 30	Women's, misses', and juniors':						
23397 30	As reported in the census of manufactures	1,000 doz--	(NA)	4 55 891	480.3	(NA)	(6)
	As reported in Current Industrial Report MA-23F,						
22531 08	Women's and Children's Outerwear	do--	(NA)	46 047	484.5	(NA)	47 349
22531 49	Women's, misses', and juniors' pullover sweaters	do--	(NA)	5 217	411.1	(NA)	5 505
22531 43	All cotton and chiefly cotton	do--	(NA)	987	(X)	(NA)	193
22531 41	All manmade and chiefly manmade	do--	(NA)	2 973	(X)	(NA)	4 559
22531 42	All wool and chiefly wool	do--	(NA)	429	(X)	(NA)	271
22531 09	Fibers, n.s.k.	do--	(NA)	828	(X)	(NA)	482
22531 59	Women's, misses', and juniors' coat and cardigan						
22531 53	sweaters	do--	(NA)	830	73.4	(NA)	1 844
22531 51	All cotton and chiefly cotton	do--	(NA)	18	(X)	(NA)	82
22531 52	All manmade and chiefly manmade	do--	(NA)	577	(X)	(NA)	1 408
22531 60	All wool and chiefly wool	do--	(NA)	32	(X)	(NA)	116
23691 70	Fibers, n.s.k.	do--	(NA)	203	(X)	(NA)	238
22532 —	Girls', teenage girls', children's, and infants':						
23212 —	As reported in the census of manufactures	do--	(NA)	(*)	56.0	(NA)	(6)
23312 —	As reported in Current Industrial Report MA-23F,						
22531 81	Women's and Children's Outerwear	do--	(NA)	4959	55.3	(NA)	41 499
22531 82	All cotton and chiefly cotton	do--	(NA)	(D)	(X)	(NA)	58.9
22531 83	All manmade and chiefly manmade	do--	(NA)	749	(X)	(NA)	1 499
22531 84	All wool and chiefly wool	do--	(NA)	(D)	(X)	(NA)	(X)
22531 00	Fibers, n.s.k.	do--	(NA)	(D)	(X)	(NA)	(X)
22532 —	Sweaters, n.s.k.		(NA)	(X)	93.2	(NA)	(X)
23212 —	Knit sport shirts	do--	(NA)	(X)	3 200.9	(NA)	63 775
23312 —							2 002.3
23612 —							
22532 10	Men's and boys':						
23212 00	As reported in the census of manufactures	do--	(NA)	(*)	1 928.4	(NA)	(6)
	As reported in Current Industrial Report MA-23E,						
23212 01	Men's and Boys' Outerwear	do--	(NA)	447 634	1 948.4	(NA)	440 539
	Men's knit sport shirts (except sweatshirts)	do--	(NA)	31 010	1 268.4	(NA)	24 446
23212 05	By fabric:						
23212 07	All cotton and chiefly cotton	do--	(NA)	10 350	(X)	(NA)	13 821
23212 08	All manmade and chiefly manmade	do--	(NA)	17 550	(X)	(NA)	(X)
23212 09	All wool and chiefly wool	do--	(NA)	(9)	(X)	(NA)	8 831
22532 01	All other fabrics	do--	(NA)	591	(X)	(NA)	1 794
	Fabrics, n.s.k.	do--	(NA)	*2 519	(X)	(NA)	(X)
23212 12	By construction:						
23212 13	Full open-front shirts	do--	(NA)	701	(X)	(NA)	
23212 14	Partial front opening (golf, polo type)	do--	(NA)	7 440	(X)	(NA)	24 446
	T-shirts made for outerwear, including tank tops	do--	(NA)	20 602	(X)	(NA)	(X)
22532 02				2 267	(X)	(NA)	
23212 24	Construction, n.s.k.	do--	(NA)	11 806	410.2	(NA)	12 179
	Boys' knit sport shirts (except sweatshirts)	do--	(NA)				264.1
23212 26	By fabric:						
23212 27	All cotton and chiefly cotton	do--	(NA)	2 110	(X)	(NA)	5 976
23212 28	All manmade and chiefly manmade	do--	(NA)	8 294	(X)	(NA)	5 449
22532 03	All other fabrics	do--	(NA)	515	(X)	(NA)	754
	Fabric, n.s.k.	do--	(NA)	887	(X)	(NA)	(X)
23212 32	By construction:						
23212 33	Full open-front shirts	do--	(NA)	323	(X)	(NA)	
23212 34	Partial front opening	do--	(NA)	3 478	(X)	(NA)	12 179
	T-shirts made for outerwear, including tank tops	do--	(NA)	6 969	(X)	(NA)	(X)
22532 04				1 036	(X)	(NA)	
23212 19	Construction, n.s.k.	do--	(NA)	4 818	269.8	(NA)	3 914
22532 30	Sweatshirts	do--	(NA)				147.3
23312 00	Women's, misses', and juniors':						
	As reported in the census of manufactures	do--	(NA)	4 5**12 369	805.4	(NA)	(6)
	As reported in Current Industrial Report MA-23F,						
23312 13	Women's and Children's Outerwear	do--	(NA)	412 183	825.1	(NA)	411 669
23312 15	Women's, misses', and juniors' knit outerwear sport shirts	do--	(NA)	12 183	825.1	(NA)	9 767
23312 16	All cotton and chiefly cotton	do--	(NA)	2 229	(X)	(NA)	3 626
23312 17	All manmade and chiefly manmade	do--	(NA)	5 065	(X)	(NA)	5 893
22532 05	All wool and chiefly wool	do--	(NA)	66	(X)	(NA)	25
	All other fabrics	do--	(NA)	4 823	(X)	(NA)	223
	Fabric, n.s.k.	do--	(NA)	-	-	(NA)	1 902
	Women's, misses', and juniors' knit outerwear sport shirts and sweatshirts, n.s.k.	do--	(NA)				104.8

See footnotes at end of table.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.

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1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
KNIT OUTERWEAR MILLS—Con.							
22532 --	Knit sport shirts—Con.						
23212 --							
23312 --							
23612 --							
22532 40							
23612 00	Girls', teenage girls', children's, and infants':						
	As reported in the census of manufactures ----- 1,000 doz..	(NA)	(* *)	450.2	(NA)	(*)	(*)
	As reported in Current Industrial Report MA-23F,						
23612 13	Women's and Children's Outerwear ----- do..	(NA)	412 076	446.3	(NA)	*11 788	254.9
	Girls', subteen, and teenage girls' knit outerwear						
	sport shirts (except sweatshirts) ----- do..	(NA)	1 601	79.3	(NA)	1 530	43.3
23612 31	All cotton and chiefly cotton ----- do..	(NA)	634	(X)	(NA)	662	(X)
23612 33	All manmade and chiefly manmade ----- do..	(NA)	939	(X)	(NA)	868	(X)
22532 06	Fabric, n.s.k. ----- do..	(NA)	28	(X)	(NA)	-	(X)
23612 15	Children's knit outerwear sport shirts (except sweatshirts) ----- do..	(NA)	6 446	241.7	(NA)	6 367	140.0
23612 41	All cotton and chiefly cotton ----- do..	(NA)	1 355	(X)	(NA)	1 334	(X)
23612 43	All manmade and chiefly manmade ----- do..	(NA)	4 843	(X)	(NA)	4 232	(X)
22532 07	Fabric, n.s.k. ----- do..	(NA)	248	(X)	(NA)	801	(X)
23612 17	Infants' and toddlers' knit outerwear sport shirts (except sweatshirts) ----- do..	(NA)	3 724	117.7	(NA)	3 712	67.6
23612 51	All cotton and chiefly cotton ----- do..	(NA)	724	(X)	(NA)	940	(X)
23612 53	All manmade and chiefly manmade ----- do..	(NA)	2 971	(X)	(NA)	2 772	(X)
22532 08	Fabric, n.s.k. ----- do..	(NA)	29	(X)	(NA)	-	(X)
23612 19	Girls', children's, infants', and toddlers' sweatshirts ----- do..	(NA)	305	7.6	(NA)	179	4.0
22532 00	Knit sport shirts, n.s.k. -----	(NA)	(X)	16.8	(NA)	(X)	(X)
22533 —	All other knit outerwear products (from yarns or fabrics knit in the same establishment) ----- do..	(NA)	(X)	856.6	(NA)	14 822	689.7
	Women's, misses', and juniors:						
22533 11	Dresses, knit ----- do..	15	(S)	15.1	17	751	78.6
22533 13	Suits, knit ----- do..	5	718	36.1	7	212	97.0
22533 15	Slacks, jeans, and dungarees, knit ----- do..	9	860	52.8	12	758	65.2
22533 16	Swimwear, knit ----- do..	5	196	24.4	2	(D)	(D)
22533 17	Blouses and shirts, knit, other than sport shirts ----- do..	19	*2 174	89.5	27	*1 203	54.0
22533 19	All other knit outerwear ----- do..	48	*4 401	213.6	38	5 192	154.0
	Men's and boys':						
22533 33	Trousers, knit ----- do..	4	(D)	(D)	2	(D)	(D)
22533 35	Shirts, knit, other than sport shirts ----- do..	10	*276	15.2	12	1 034	34.5
22533 38	All other knit outerwear ----- do..	27	(D)	(D)	27	*2 952	85.6
22533 60	Girls', teenage girls', children's, and infants' ----- do..	22	4 156	107.4	22	*2 555	80.3
22533 00	Other knit outerwear products, n.s.k. -----	(NA)	(X)	72.7	15	(X)	33.4
22539 —	Contract and commission receipts for knitting only or knitting and finishing outerwear products	(NA)	(X)	209.8	(NA)	(X)	154.2
22539 00	Receipts for commission knitting only or knitting and finishing outerwear products, typically for establishments with 5 employees or more (see note) -----	(NA)	(X)	196.3	(NA)	(X)	154.2
22539 02	Receipts for commission knitting only or knitting and finishing outerwear products, typically for establishments with less than 5 employees (see note) -----	(NA)	(X)	13.5	(NA)	(X)	154.2
22530 00	Knit outerwear mills, n.s.k., typically for establishments with 5 employees or more (see note) -----	(NA)	(X)	217.9	(NA)	(X)	188.8
22530 02	Knit outerwear mills, n.s.k., typically for establishments with less than 5 employees (see note) -----	(NA)	(X)	44.1	(NA)	(X)	30.3
KNIT UNDERWEAR MILLS							
2254— --	Total -----	(NA)	(X)	*767.4	(NA)	(X)	*579.5
22541 —	Men's and boys' knit underwear and nightwear (from yarns or fabrics knit in the same establishment) ----- 1,000 doz..	(NA)	(X)	574.8	37	38 288	431.0
22541 11	Underwear, knit ----- do..	31	33 682	557.7	(NA)	38 288	(X)
22541 13	Nightwear, knit ----- do..	10	327	15.6	(NA)	(X)	(X)
22541 00	Underwear and nightwear, n.s.k. -----	(NA)	(X)	1.5	(NA)	(X)	(X)
22542 —	Women's and children's knit underwear (from yarns or fabrics knit in the same establishment):						
22542 00	Underwear, knit ----- 1,000 doz..	27	12 672	125.3	27	14 877	95.4
22543 —	Women's and children's knit nightwear (from yarns or fabrics knit in the same establishment):						
22543 00	Nightwear, knit ----- do..	16	1 640	61.9	12	*1 995	50.0
22540 00	Knit underwear mills, n.s.k., typically for establishments with 20 employees or more (see note) -----	(NA)	(X)	3.0	(NA)	(X)	1.1
22540 02	Knit underwear mills, n.s.k., typically for establishments with less than 20 employees (see note) -----	(NA)	(X)	2.4	(NA)	(X)	2.0

See footnotes at end of table.

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1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
CIRCULAR KNIT FABRIC MILLS							
2257—	Total	(NA)	(X)	2 494.9	(NA)	(X)	3 111.2
22571 —	Weft knit fabric greige goods, except hosiery mil lb.	(NA)	(X)	467.6	35	*224.2	343.5
22571 10	Narrow knit fabrics less than 12 inches wide do.	5	20.7	36.9	(NA)	*224.2	343.5
22571 20	Broad knit fabrics do.	38	1 310.0	423.7	(NA)	(X)	(X)
22571 00	Weft knit fabric greige goods, except hosiery, n.s.k.	(NA)	(X)	7.1	(NA)	(X)	(X)
22572 —	Weft knit underwear and nightwear finished fabric, except hosiery mil lb.	(NA)	**32.5	126.3	21	72.8	139.5
22572 10	Knitted and finished in the same plant do.	11					
22572 20	Purchased weft knit fabric finished in the same plant do.	1	**32.5	126.3	(NA)	72.8	139.5
22572 00	Weft knit underwear and nightwear finished fabric, except hosiery, n.s.k.	(NA)					
22574 —	Weft knit high pile finished fabric (including overcoating, topcoating, footwear lining, etc.) do.	(NA)	**38.3	147.4	16	92.1	202.3
22574 10	Knitted and finished in the same plant do.	8					
22574 20	Purchased weft knit fabric finished in the same plant do.	1	**38.7	147.4	(NA)	92.1	202.3
22574 00	Weft knit underwear and nightwear finished fabric, n.s.k.	(NA)					
22575 —	Weft single knit outerwear finished fabric, except hosiery do.	(NA)	(X)	735.0	70	*215.1	564.6
22575 10	Knitted and finished in the same plant do.	43	189.2	545.0	(NA)		
22575 20	Purchased weft knit fabric finished in the same plant do.	10	39.3	116.4	(NA)		
22575 00	Weft single knit outerwear finished fabric, except hosiery, n.s.k.	(NA)	(X)	73.6	(NA)		
22577 —	Weft double knit outerwear finished fabric (including interlock) do.	(NA)	(X)	412.5	85	**523.5	1 050.8
22577 10	Knitted and finished in the same plant do.	29	74.5	247.1	(NA)		
22577 20	Purchased warp knit fabric finished in the same plant do.	9	21.9	69.8	(NA)		
22577 00	Weft double knit outerwear finished fabric, n.s.k.	(NA)	(X)	95.6	(NA)	(X)	(X)
22578 —	All other weft knit finished fabric, except hosiery mil lb.	(NA)	(X)	146.4	51	**181.6	364.5
22578 20	Knitted and finished in the same plant:						
22578 40	Narrow fabrics less than 12 inches wide do.	16	(S)	49.9	(NA)		
22578 50	Broad fabrics do.	13	32.5	82.6	(NA)		
22578 00	Purchased weft knit fabric finished in the same plant do.	5	*7.1	13.9	(NA)		
22578 00	All other weft knit finished fabric, except hosiery, n.s.k.	(NA)	(X)	-	(NA)	(X)	(X)
22579 —	Contract and commission receipts for knitting only or knitting and finishing	(NA)	(X)	282.5	117	(X)	286.1
22579 11	Receipts for commission knitting only or knitting and finishing weft knit fabric, except hosiery	36	(X)	40.5	(NA)		
22579 13	Receipts for commission finishing only weft knit fabric, except hosiery	42	(X)	175.0	(NA)		
22579 00	Receipts for knitting only or knitting and finishing, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	60.6	(NA)	(X)	286.1
22579 02	Receipts for knitting only or knitting and finishing, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	6.4	(NA)		
22570 00	Circular knit fabric mills, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	120.5	(NA)	(X)	120.2
22570 02	Circular knit fabric mills, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	56.6	(NA)	(X)	39.7
WARP KNIT FABRIC MILLS							
2258—	Total	(NA)	(X)	1 567.5	(NA)	(X)	1 568.4
22581 —	Warp knit fabric greige goods (tricot, raschel, simplex, and milanese) mil lb.	(NA)	(X)	445.5	37	*193.7	363.3
22581 10	Narrow fabrics less than 12 inches wide do.	26	**12.4	45.4	(NA)	*193.7	363.3
22581 20	Broad fabrics do.	48	120.4	361.4	(NA)		
22581 00	Warp knit fabric greige goods, n.s.k.	(NA)	(X)	38.7	(NA)	(X)	(X)
22582 —	Warp knit underwear and nightwear finished fabric mil lb.	(NA)	103.8	321.0	35	*153.3	405.2
22582 10	Knitted and finished in the same plant do.	20					
22582 20	Purchased warp knit fabric finished in the same plant do.	2	103.8	321.0	(NA)	*153.3	405.2
22582 00	Warp knit underwear and nightwear finished fabric, n.s.k.	(NA)					
22583 —	Warp knit outerwear fabric (including dress, blouse, shirting, slack, etc.) do.	(NA)	(X)	261.2	43	*143.1	328.2
22583 10	Knitted and finished in the same plant do.	14	62.1	199.3	(NA)		
22583 20	Purchased warp knit fabric finished in the same plant do.	6	20.5	59.6	(NA)		
22583 00	Warp knit outerwear fabric, n.s.k.	(NA)	(X)	2.4	(NA)	(X)	(X)
22588 —	All other warp knit finished fabric mil lb.	(NA)	(X)	379.6	67	**126.2	302.9
22588 20	Knitted and finished in the same plant:						
22588 40	Narrow fabrics less than 11 inches wide do.	11	5.0	17.5	(NA)		
22588 50	Broad fabrics do.	14	52.7	187.2	(NA)		
22588 00	Purchased warp knit fabric finished in the same plant do.	7	91.3	174.8	(NA)		
22588 00	All other warp knit finished fabric, n.s.k.	(NA)	(X)	-	(NA)	(X)	(X)

See footnotes at end of table.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text)

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
WARP KNIT FABRIC MILLS—Con.							
22589 —	Contract and commission receipts for knitting only or knitting and finishing -----	(NA)	(X)	114.5	42	(X)	138.7
22589 11	Receipts for commission knitting only or knitting and finishing warp knit fabric -----	27	(X)	31.6	(NA)		
22589 15	Receipts for commission finishing only warp knit fabric -----	21	(X)	74.1	(NA)		
22589 00	Receipts for contract and commission work for knitting only or knitting and finishing warp knit fabric, n.s.k., typically for establishments with 5 employees or more (see note) -----	(NA)	(X)	6.5	(NA)	(NA)	(NA)
22589 02	Receipts for contract and commission work for knitting only or knitting and finishing warp knit fabric, n.s.k., typically for establishments with less than 5 employees (see note) -----	(NA)	(X)	2.2	(NA)	(NA)	(NA)
22580 00	Warp knit fabric, n.s.k., typically for establishments with 5 employees or more (see note) -----	(NA)	(X)	43.5	(NA)	(X)	8.4
22580 02	Warp knit fabric, n.s.k., typically for establishments with less than 5 employees (see note) -----	(NA)	(X)	2.2	(NA)	(X)	21.7
KNITTING MILLS, N.E.C.							
2259 —	Total ¹¹ -----	(NA)	(X)	133.5	(NA)	(X)	112.9
22590 —	Knit gloves and other knit products, n.e.c.:						
22590 10	Dress and semidress gloves and mittens, including knit fabric and leather combinations -----	1,000 doz pairs-- do--	(X)	36.1	5	626.0	9.9
22590 70	Work gloves and mittens -----	4	(X)		9	** 4 012.0	16.8
22590 98	Other knit end products (except fabric), including knitted towels and washcloths -----	9					
22590 00	Knit gloves and other knit products, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note) -----	1,000 doz--	(S)	68.8	24	(S)	41.9
22590 02	Knit gloves and other knit products, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note) -----	(NA)	(X)	26.7	(NA)	(X)	25.9
		(NA)	(X)	1.8	(NA)	(X)	18.4

Note: In 1982 Census of Manufactures, data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1982 and 1977 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

¹Data reported by all producers, not just those with shipments of \$100,000 or more.

²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

³For 1982, old product class 22513 was split into product classes 22512 and 22516. Product class, n.s.k., data are not available for product class 22512 because of this restructuring. Therefore, product class, n.s.k., data for 1977 shown for product class 22516 include an unknown amount of product class 22512.

⁴Census of manufactures data represent quantity of shipments; whereas, the Current Industrial Report data represent quantity of production.

⁵See Table 6a-2, Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1982 and 1977.

⁶Data for knit sweaters by type (men's, women's, etc.) were not collected separately from the knitting mills in the 1977 Census of Manufactures.

⁷Included with "Fibers, n.s.k." to avoid disclosing data for individual companies.

⁸Data for knit outerwear sport shirts by type (men's, women's, etc.) were not collected separately from knitting mills in 1977 Census of Manufactures.

⁹Included with "Fabrics, n.s.k." to avoid disclosing data for individual companies.

¹⁰Data are only for products made in knitting mills. Quantity and value for output of cut-and-sew establishments are shown in Industry 2321, Men's and Boys' Shirts and Nightwear; Industry 2322, Men's and Boys' Underwear; and Industry 2341, Women's and Children's Underwear.

¹¹Includes only gloves and mittens made in knitting mills. Data for gloves and mittens of fabric (woven or purchased knit) and fabric and leather combinations are included in industry 2381, census report MC82-I-23D-2(P). Data for gloves and mittens of all leather are included in industry 3151, census report MC82-I-31B-1(P).

Table 6a-2. Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1982 and 1977

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 product code	Product	1982			1977			
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹		
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)	
22531 —	Sweaters.....	1,000 dozen	(NA)	(X)	1 033.2	(NA)	12 000	766.7
23292 60	Made in knitting mills	do	(NA)	8 720	817.6	149	9 143	555.5
23397 30	Made in cut-and-sew shops.....	do	(NA)	1 654	215.6	(NA)	2 857	211.2
23691 70								
22531 10	Men's and boys'.....	do	(NA)	3 520	403.7	(NA)	(*)	(*)
23292 60	Made in knitting mills	do	63	3 171	362.9	(NA)	(*)	(*)
23397 30	Made in cut-and-sew shops.....	do	14	349	40.8	12	324	21.6
23691 70								
22531 10	Women's, misses', and juniors'.....	do	(NA)	5 891	480.3	(NA)	(*)	(*)
22531 30	Made in knitting mills	do	88	4 690	310.6	(NA)	(*)	(*)
23397 30	Made in cut-and-sew shops.....	do	52	1 201	169.7	35	2 353	180.3
22531 60	Girls', teenage girls', children's, and infants'.....	do	(NA)	963	56.0	(NA)	(*)	(*)
23691 70	Made in knitting mills	do	18	859	50.9	(NA)	(*)	(*)
23691 70	Made in cut-and-sew shops.....	do	8	104	5.1	6	**180	9.3
22531 00	Sweaters, n.s.k. (made in knitting mills only).....		(NA)	(X)	93.2	(NA)	(X)	(X)
22532								
23212 00	Knit sport shirts.....	do	(NA)	72 867	3 200.9	(NA)	63 775	2 002.3
23312 00								
23612 00	Made in knitting mills	do	(NA)	29 017	1 008.2	67	18 574	518.1
23212 —	Made in cut-and-sew shops.....	do	(NA)	43 850	2 192.7	(NA)	45 201	1 484.2
23312 00								
23612 00	Men's and boys'.....	do	(NA)	48 384	1 928.4	(NA)	(*)	(*)
22532 10	Made in knitting mills	do	55	25 505	815.5	(NA)	(*)	(*)
23212 00	Made in cut-and-sew shops.....	do	146	22 879	1 112.9	147	27 821	809.0
22532 30	Women's, misses', and juniors'.....	do	(NA)	12 369	805.4	(NA)	(*)	(*)
23312 00	Made in knitting mills	do	26	2 174	127.3	(NA)	(*)	(*)
22532 30	Made in cut-and-sew shops.....	do	164	10 195	678.1	201	9 662	502.1
23312 00								
22532 40	Girls', teenage girls', children's, and infants'.....	do	(NA)	12 114	450.2	(NA)	(*)	(*)
23612 00	Made in knitting mills	do	11	1 338	48.5	(NA)	(*)	(*)
22532 40	Made in cut-and-sew shops.....	do	61	10 776	401.7	42	7 718	176.1
23612 00	Knit sport shirts, n.s.k. (made in knitting mills only)		(NA)	(X)	16.9	(NA)	(X)	(X)

Note: In 1982 Census of Manufactures, data for establishments of small single-unit companies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1982 and 1977 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

¹Data reported by all producers, not just those with shipments of \$100,000 or more.

²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

*Data for knit sweaters by type (men's, women's, etc.) were not collected separately from the knitting mills in the 1977 Census of Manufactures.

**Data for knit outerwear sport shirts by type (men's, women's, etc.) were not collected separately from the knitting mills in the 1977 Census of Manufactures.

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1982 and 1977

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1982. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Product class and geographic area	1982 value of product shipments	1977 value of product shipments	Product class and geographic area	1982 value of product shipments	1977 value of product shipments
22512, WOMEN'S AND MISSES' FINISHED SEAMLESS HOSIERY, FULL-LENGTH AND KNEE-LENGTH (EXCEPT PANTYHOSE)			22533, ALL OTHER KNIT OUTERWEAR PRODUCTS (FROM YARNS OR FABRICS KNIT IN SAME ESTABLISHMENT)		
United States -----	353.4	(D)	United States -----	856.6	689.7
North Carolina -----	268.7	(NA)	California -----	42.0	19.8
Pennsylvania -----	9.2	(NA)	Florida -----	5.5	(FF)
Tennessee -----	22.9	(NA)	New Jersey -----	15.2	11.0
22516, WOMEN'S AND MISSES' FINISHED PANTYHOSE			New York -----	71.3	132.2
United States -----	943.2	(D)	North Carolina -----	182.8	81.6
North Carolina -----	518.7	(NA)	Ohio -----	47.1	(FF)
Virginia -----	16.5	(NA)	Pennsylvania -----	262.8	(D)
22517, WOMEN'S AND MISSES' HOSIERY SHIPPED IN THE GREIGE			Wisconsin -----	43.4	39.7
United States -----	85.6	58.4	22539, CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING OUTERWEAR PRODUCTS		
North Carolina -----	82.8	(NA)	United States -----	209.8	154.2
22522, MEN'S FINISHED SEAMLESS HOSIERY (SIZES 10 OR LARGER)			Alabama -----	3.3	(AA)
United States -----	655.0	464.6	California -----	10.6	3.4
Alabama -----	23.9	6.0	Florida -----	3.9	1.9
Georgia -----	40.5	26.5	New Jersey -----	31.5	22.8
North Carolina -----	390.5	283.0	New York -----	95.7	70.2
Pennsylvania -----	48.3	29.1			
Tennessee -----	79.4	52.8	22541, MEN'S AND BOYS' KNIT UNDERWEAR AND NIGHTWEAR, FROM YARNS OR FABRICS KNIT IN SAME ESTABLISHMENT		
Virginia -----	11.4	(CC)	United States -----	574.8	431.0
22523, ALL OTHER FINISHED SEAMLESS HOSIERY			New York -----	43.9	14.8
United States -----	452.1	274.3	North Carolina -----	110.1	72.9
Alabama -----	33.4	18.2	Pennsylvania -----	90.4	95.8
Georgia -----	29.6	17.4	22542, WOMEN'S AND CHILDREN'S KNIT UNDERWEAR FROM FABRICS KNIT IN SAME ESTABLISHMENT (ALSO SEE CODE 23412)		
North Carolina -----	259.8	169.9	United States -----	125.3	95.4
Pennsylvania -----	4.9	(AA)	North Carolina -----	70.6	39.5
Tennessee -----	78.7	40.6	Pennsylvania -----	15.2	23.9
Wisconsin -----	7.1	6.3	22543, WOMEN'S AND CHILDREN'S KNIT NIGHTWEAR, FROM FABRICS KNIT IN SAME ESTABLISHMENT (ALSO SEE CODE 23413)		
22524, SEAMLESS HOSIERY SHIPPED IN THE GREIGE, EXCEPT WOMEN'S FULL-LENGTH AND KNEE-LENGTH			United States -----	61.9	50.0
United States -----	155.6	93.5	Pennsylvania -----	15.2	14.1
Alabama -----	29.7	(D)	22571, WEFT KNIT FABRIC GREIGE GOODS, EXCEPT HOSIERY		
Georgia -----	12.5	(NA)	United States -----	467.6	343.5
North Carolina -----	100.7	80.9	New York -----	10.5	21.3
Tennessee -----	9.1	7.2	North Carolina -----	297.2	175.7
22531, SWEATERS, KNIT JACKETS, AND JERSEYS MADE FROM YARNS OR FABRIC KNIT IN SAME ESTABLISHMENT			22574, WEFT KNIT HIGH PILE FINISHED FABRIC (INCLUDING OVERCOATING, TOPCOATING, FOOTWEAR LINING, ETC.)		
United States -----	817.6	555.5	United States -----	147.4	202.3
California -----	8.1	9.1	South Carolina -----	8.5	(NA)
Massachusetts -----	33.9	(FF)			
New Jersey -----	56.4	34.5			
New York -----	255.2	220.6			
North Carolina -----	86.5	32.3			
Pennsylvania -----	241.4	110.4			
22532, KNIT OUTERWEAR SPORT SHIRTS, FROM FABRIC KNIT IN SAME ESTABLISHMENT (ALSO SEE CODES 23212, 23312, AND 23612)					
United States -----	1 008.2	518.1			
Florida -----	4.7	(AA)			
New Jersey -----	18.1	(D)			
New York -----	55.0	49.1			
North Carolina -----	326.2	95.5			
Pennsylvania -----	103.3	93.1			

See footnotes at end of table.

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1982 and 1977—Con.

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1982. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1982 value of product shipments	1977 value of product shipments	Product class and geographic area	1982 value of product shipments	1977 value of product shipments
22575, WEFT SINGLE KNIT OUTERWEAR FINISHED FABRIC, EXCEPT HOSIERY			22581, WARP KNIT FABRIC GREIGE GOODS (TRICOT, RASCHEL, SIMPLEX, AND MILANESE)		
United States	735.0	564.6	United States	445.5	363.3
Massachusetts	34.2	(EE)	New Jersey	34.4	22.5
New Jersey	62.9	(GG)	New York	62.2	(FF)
New York	84.2	100.3	North Carolina	120.6	206.6
North Carolina	334.6	230.8	Pennsylvania	64.4	45.4
South Carolina	58.1	(FF)	Rhode Island	7.6	(NA)
Virginia	115.6	(NA)	Virginia	50.1	(NA)
22577, WEFT DOUBLE KNIT OUTERWEAR FINISHED FABRIC (INCLUDING INTERLOCK)			22582, WARP KNIT UNDERWEAR AND NIGHTWEAR FINISHED FABRIC		
United States	412.5	1 050.8	United States	321.0	405.2
California	30.0	43.4	New York	17.1	63.6
New Jersey	44.6	121.8	North Carolina	202.6	141.1
New York	75.5	120.3	Pennsylvania	53.5	79.2
North Carolina	195.7	503.3	22583, WARP KNIT OUTERWEAR FABRIC (INCLUDING DRESS, BLOUSE, SHIRTING, SLACK, ETC.)		
United States	146.4	364.5	United States	261.2	328.2
New York	8.4	32.4	North Carolina	152.4	134.0
North Carolina	46.0	163.7	22588, ALL OTHER WARP KNIT FINISHED FABRIC		
South Carolina	35.4	71.9	United States	379.6	(NA)
22579, CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING			North Carolina	153.8	(NA)
United States	282.5	286.1	22589, CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING		
California	6.5	(CC)	United States	114.5	138.7
New Jersey	22.3	11.8	New Jersey	7.0	13.4
New York	26.4	45.5	New York	15.5	12.1
North Carolina	113.9	111.3	North Carolina	33.5	59.4
Pennsylvania	42.8	31.2	Pennsylvania	14.1	8.9
South Carolina	11.1	25.7			

Note: For 1977, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing data for individual companies: AA—less than \$2.0 but not 0; BB—\$2.0 to \$4.9; CC—\$5.0 to \$9.9; EE—\$10.0 to \$19.9; FF—\$20.0 to \$49.9; GG—\$50.0 or more.

Table 6c. Product Classes—Value Shipped by All Producers: 1982 and Earlier Years

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1982 product code	Product class	1982	1981 ¹	1980 ¹	1979 ¹	1978 ¹	1977	1972	1967
2251-22512	Women's hosiery, except socks	1 425.3	1 132.5	1 105.9	1 044.9	889.8	819.1	899.0	772.7
	Women's and misses' finished seamless hosiery, full-length and knee-length (except pantyhose)	353.4	1 028.0	990.4	945.2	(S)	723.4	777.2	590.0
22516	Women's and misses' finished pantyhose	943.2							
22517	Women's and misses' hosiery shipped in the greige	85.6	79.9	82.2	79.2	68.1	58.4	101.1	145.5
22510	Women's and misses' hosiery, except socks, n.s.k.	43.1	24.6	33.3	20.5	(S)	37.3	20.7	37.2
2252-22522	Hosiery, n.e.c.	1 324.5	1 300.0	1 189.5	1 045.4	998.2	893.6	588.0	454.5
22522	Men's finished seamless hosiery (sizes 10 or larger)	655.0	705.9	681.9	627.6	525.9	464.6	285.9	238.3
22523	All other finished seamless hosiery	452.1	429.5	355.2	318.3	299.2	274.3	188.7	131.7
22524	Seamless hosiery shipped in the greige, except women's full-length and knee-length	155.6	118.3	113.7	70.2	114.4	93.5	78.6	61.0
22520	Hosiery, n.e.c., n.s.k., except women's seamless full-length hosiery and pantyhose	61.9	46.3	38.7	29.4	(S)	61.2	34.8	23.5
2253-22531	Knit outerwear mills	3 154.2	2 600.2	2 442.8	2 084.8	2 273.0	2 136.6	1 571.1	1 170.0
22531	Sweaters, knit jackets, and jerseys made from yarns or fabric knit in same establishment	817.6	738.8	614.1	524.0	525.9	555.5	473.8	506.0
22532	Knit outerwear sport shirts, from fabric knit in same establishment (also see codes 23212, 23312, and 23612)	1 008.2	945.4	889.5	625.3	578.9	518.1	342.8	210.9
22533	All other knit outerwear products (from yarns or fabrics knit in same establishment)	856.6	605.6	639.1	667.2	705.2	689.7	445.0	225.0
22539	Contract and commission receipts for knitting only or knitting and finishing outerwear products	209.8	116.6	152.5	146.8	141.9	154.2	205.8	131.1
22530	Knit outerwear mill products, n.s.k.	262.0	193.8	147.6	121.5	(S)	219.1	103.7	97.0

See footnotes at end of table.

Table 6c. Product Classes—Value Shipped by All Producers: 1982 and Earlier Years—Con.

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1982 product code	Product class	1982	1981 ¹	1980 ¹	1979 ¹	1978 ¹	1977	1972	1967
2254-22541	Knit underwear mills	767.4	700.3	731.1	703.7	742.6	579.5	481.5	396.7
	Men's and boys' knit underwear and nightwear, from yarns or fabrics knit in same establishment	574.8	512.3	538.4	526.7	548.8	431.0	360.3	271.0
22542	Women's and children's knit underwear from fabrics knit in same establishment (also see code 23412)	125.3	77.2	90.9	87.5	110.8	95.4	73.0	76.5
22543	Women's and children's knit nightwear, from fabrics knit in same establishment (also see code 23413)	61.9	93.1	88.7	77.3	59.2	50.0	45.9	45.5
22540	Knit underwear and nightwear, n.s.k., made from yarns or fabric knit in same establishment	5.4	17.7	(S)	12.2	(S)	3.1	2.3	3.7
2257-22571	Circular knit fabric mills	2 494.9	2 979.0	3 137.2	3 077.5	3 120.5	3 111.2	2 770.2	794.3
22572	Weft knit fabric greige goods, except hosiery	467.6	268.9	290.0	355.1	353.7	343.5	163.2	(NA)
22574	Weft knit underwear and nightwear finished fabric, except hosiery	126.3	279.3	230.2	231.1	213.0	139.5	88.4	(NA)
	Weft knit high pile finished fabric (including overcoating, topcoating, footwear lining, etc.)	147.4	198.8	266.1	232.1	261.9	202.3	185.0	(NA)
22575	Weft single knit outerwear finished fabric, except hosiery	735.0	722.5	739.6	603.4	557.6	564.6	367.5	694.7
22577	Weft double knit outerwear finished fabric (including interlock)	412.5	690.2	772.8	794.7	806.6	1 050.8	1 289.7	(NA)
22578	All other weft knit finished fabric, except hosiery	146.4	319.6	313.3	327.9	335.2	364.5	156.1	(NA)
22579	Contract and commission receipts for knitting only or knitting and finishing	282.5	279.4	291.3	279.2	(S)	286.1	394.0	(NA)
22570	Circular knit fabric, n.s.k.	177.1	220.3	234.0	254.1	276.6	159.9	126.3	99.6
2258-22581	Warp knit fabric mills	1 567.5	1 706.9	1 739.1	1 687.6	1 617.8	1 568.4	928.6	614.9
22582	Warp knit fabric greige goods (tricot, raschel, simplex, and milanese)	445.5	453.8	487.0	461.0	375.8	363.3	151.9	(NA)
22583	Warp knit underwear and nightwear finished fabric	321.0	483.0	491.8	436.2	444.7	405.2	276.0	(NA)
22588	Warp knit outerwear fabric (including dress, blouse, shirting, slack, etc.)	261.2	225.0	256.6	323.4	334.9	328.2	212.5	537.8
22589	All other warp knit finished fabric	379.6	369.7	333.0	311.7	315.1	302.9	186.8	-
22580	Contract and commission receipts for knitting only or knitting and finishing	114.5	93.3	116.6	125.1	110.9	138.7	95.5	(NA)
	Warp knit fabric, n.s.k.	45.7	82.1	64.0	30.3	(S)	30.1	5.9	77.1
22590	Knit gloves and other knit products, n.e.c.	133.5	113.0	142.0	139.3	(S)	112.9	87.1	35.7

¹Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period.

Table 7. Materials Consumed by Kind: 1982 and 1977

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 material code	Material	1982		1977		
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS						
Materials, containers, and supplies						
225011	Hosiery in the greige, except pantyhose	(X)	551.2	(X)	373.4	
225021	Pantyhose shipped in the greige	(X)	45.6	(X)	37.6	
228102	Cotton yarns	mil lb	67.1	(X)	40.0	
228141	Nylon spun yarns	do	*5.6	7.8	11.8	
228145	Acrylic yarns	do	**7.0	22.0	40.6	
282411	Nylon filament yarns	do	*6.9	17.8	8.3	
282435	Spandex filament yarns	do	46.9	173.3	95.7	
228011	All other yarns	do	8.1	76.2	28.0	
970099	All other materials and components, parts, containers, and supplies	(S)	8.1	(S)	4.3	
971000	Materials, containers, and supplies, n.s.k. ²	(X)	100.9	(X)	88.2	
		(X)	30.6	(X)	18.9	
INDUSTRY 2252, HOSIERY, N.E.C.						
Materials, containers, and supplies						
225011	Hosiery in the greige, except pantyhose	(X)	734.5	(X)	478.1	
228102	Cotton yarns	mil lb	204.9	(X)	134.8	
228141	Nylon spun yarns	do	*50.0	78.4	53.1	
228145	Acrylic yarns	do	26.6	**16.1	28.7	
282411	Nylon filament yarns	do	*69.6	146.2	71.7	
282435	Spandex filament yarns	do	*25.8	68.4	42.6	
228011	All other yarns	do	2.0	10.7	4.8	
970099	All other materials and components, parts, containers, and supplies	(S)	*25.3	56.3	29.7	
971000	Materials, containers, and supplies, n.s.k. ²	(X)	94.4	(X)	70.0	
		(X)	48.6	(X)	42.7	

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1982 and 1977—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 material code	Material	1982		1977		
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
INDUSTRY 2253, KNIT OUTERWEAR MILLS						
Materials, containers, and supplies						
		(X)	1 047.9	(X)	887.9	
225078	Knitted fabrics, purchased	mil lb	(S)	64.2	90.4	
228110	Carded cotton yarns	do	*57.5	28.9	36.1	
228120	Combed cotton yarns	do	*19.8	44.2	29.7	
228130	Rayon and acetate spun yarns	do	4.8	6.2	1.7	
228141	Nylon spun yarns	do	*2.2	5.0	8.7	
228143	Polyester spun yarns	do	44.7	81.3	34.0	
228145	Acrylic yarns	do	58.6	138.6	128.0	
228301	Wool yarns	do	11.9	39.9	24.3	
282301	Rayon and acetate filament yarns	do	.6	1.3	1.4	
282411	Nylon filament yarns	do	6.8	16.8	18.1	
282423	Polyester filament yarns	do	18.8	25.3	35.2	
228001	All other yarns	do	**17.8	30.3	24.2	
970099	All other materials and components, parts, containers, and supplies		(X)	229.1	201.2	
971000	Materials, containers, and supplies, n.s.k. ²		(X)	248.9	254.9	
INDUSTRY 2254, KNIT UNDERWEAR MILLS						
Materials, containers, and supplies						
		(X)	329.9	(X)	325.8	
225078	Knitted fabrics, purchased	mil lb	(S)	5.3	7.5	
228110	Carded cotton yarns	do	53.9	83.8	94.5	
228120	Combed cotton yarns	do	18.5	35.9	40.7	
228000	Manmade fiber yarn, filament and spun	do	31.9	57.4	34.4	
228013	All other yarns	do	15.5	28.8	25.7	
970099	All other materials and components, parts, containers, and supplies		(X)	112.0	99.4	
971000	Materials, containers, and supplies, n.s.k. ²		(X)	6.7	23.6	
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS						
Materials, containers, and supplies						
		(X)	1 474.3	(X)	1 885.1	
225078	Knitted fabrics, purchased	mil lb	*109.2	199.9	290.1	
282014	Manmade fibers, staple, and tow	do	105.4	132.3	85.8	
013101	Raw cotton	mil bales	42.7	15.2	26.7	
027111	Raw wool	mil lb	(D)	(D)	(D)	
228110	Carded cotton yarns	do	25.9	43.8	60.9	
228120	Combed cotton yarns	do	57.3	122.2	152.3	
228130	Rayon and acetate spun yarns	do	(D)	(D)	9.9	
228141	Nylon spun yarns	do	(D)	(D)	11.8	
228143	Polyester spun yarns	do	135.0	209.6	**166.0	
228145	Acrylic yarns	do	30.0	46.6	207.3	
228301	Wool yarns	do	1.0	3.0	.5	
282301	Rayon and acetate filament yarns	do	(D)	(D)	(D)	
282411	Nylon filament yarns	do	4.7	10.6	97.8	
282423	Polyester filament yarns	do	*112.8	159.3	289.3	
228001	All other yarns	do	19.8	50.1	**113.6	
970099	All other materials and components, parts, containers, and supplies		(X)	164.0	(NA)	
971000	Materials, containers, and supplies, n.s.k. ²		(X)	243.4	(X)	
INDUSTRY 2258, WARP KNIT FABRIC MILLS						
Materials, containers, and supplies						
		(X)	806.4	(X)	842.0	
225078	Knitted fabrics, purchased	mil lb	86.1	111.7	29.4	
282014	Manmade fibers, staple, and tow	do	20.6	12.8	(4)	
013101	Raw cotton	mil bales	4.6	1.7	(4)	
027111	Raw wool	mil lb	—	—	—	
228110	Carded cotton yarns	do	5.2	7.1	(4)	
228120	Combed cotton yarns	do	(S)	1.0	(4)	
228130	Rayon and acetate spun yarns	do	5.7	13.1	29.3	
228141	Nylon spun yarns	do	7.6	18.3	34.3	
228143	Polyester spun yarns	do	37.6	70.9	30.8	
228145	Acrylic yarns	do	(D)	(D)	20.0	
228301	Wool yarns	do	(D)	(D)	(4)	
282301	Rayon and acetate filament yarns	mil lb	55.6	82.6	91.6	
282411	Nylon filament yarns	do	87.6	187.4	141.8	
282423	Polyester filament yarns	do	74.0	107.6	117.1	
228001	All other yarns	do	*33.2	52.1	*56.5	
970099	All other materials and components, parts, containers, and supplies		(X)	94.9	(X)	
970099	All other materials and components, parts, containers, and supplies		(X)	85.2	(X)	
971000	Materials, containers, and supplies, n.s.k. ²		(X)	43.6	(X)	

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1982 and 1977—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 material code	Material	1982		1977	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
INDUSTRY 2259, KNITTING MILLS, N.E.C.					
	Materials, containers, and supplies	(X)	49.0	(X)	54.1
225078	Knitted fabrics, purchased mil lb ..	(S)	5.8	(X)	(⁶)
228110	Carded cotton yarns do	*6.5	11.2	(S)	8.4
970099	All other materials and components, parts, containers, and supplies	(X)	17.8	(X)	⁵ 19.9
971000	Materials, containers, and supplies, n.s.k. ²	(X)	14.2	(X)	25.8

¹For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

³For 1977, material codes 027111 and 282301 were included with material code 970099.

⁴For 1977, material codes 282014, 013101, 228110, 228120, and 228301 were included with material code 228001.

⁵For 1977, material code 225078 was included with material code 970099.

APPENDIX A.

Explanation of Terms

This appendix is in two sections. Section 1 includes items which were requested of all establishments that were mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) that were not included on the report forms but were derived from information collected on the forms. Section 2 covers supplementary items that were requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in tables 3c and 3d of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies—As discussed in the introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operates at different physical locations, even if the individual locations are producing the same line of goods, a separate report was requested for each location. If the company operates in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on the number of custodial employees, capital expenditures, inventories, or any shipments from inventories during the portion of the year the plant was in operation.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction to Part 1 of the General Summary subject report.

Employment and related items—The regular report forms requested separate information on production workers as of a payroll period for each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period ending nearest the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls was also requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the general summary and geographic area reports and in the final bound volumes as a separate category.

Payrolls—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1982. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers

of corporations, but excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

Production-worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Specific materials consumed—In addition to the total cost of materials, which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the specific materials consumed is shown in table 7 if appropriate to the industry. Establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See the Introduction for the importance of administrative records in the industry.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further

processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Individual products—As in previous censuses, data were collected for almost all industries on the quantity and value of individual products shipped. In the 1982 census program, information was collected on the output of approximately 11,000 individual product items. The term "product," as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 items; whereas, "motor gasoline" was reported as a single item.

Approximately 6,000 of the product items were listed separately on the 1982 census report forms. Data for about 5,000 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1982 for these items, as derived from the commodity surveys, are shown in the "products shipped" table (table 6a) together with the tieline total value collected in the census for reconciliation purposes.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1977 information is presented for most products.

Typically, both quantity and value of shipments information was collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers was also collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production was also collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

Classes of products—To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the

individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Introduction, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1982 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. With some important exceptions, such as for motor vehicles and parts, this duplication is not significant at the four-digit industry level. However, it is significant at the two-digit and three-digit industry group level because these totals often include industries that represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food" group and the addition of pulp mills to paper mills in the "Paper and Allied Products" group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

Because of the change in instructions for reporting inventories for 1982, the 1982 figure for value added is not strictly comparable to prior-year data. This is explained more fully in the inventories section below.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and establishments under construction but not yet in operation, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures exclude that portion of expenditures leased from nonmanufacturing concerns, new facilities owned by the Federal Government but operated under

contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers were also requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred to the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; i.e., it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form and is subject to sampling error (see table 3d). The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in both tables 3a and 3d. The figure in table 3a is a census universe total and may differ from the results of the ASM sample shown in table 3d. Since the figures in table 3d are subject to sampling error, they are not considered as reliable as the universe figures.

End-of-year inventories—Respondents were asked to report their 1981 and 1982 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications. Inventories and value added data estimated on a basis comparable to the historical data, using the reported information for 1982, are shown in footnote 4 of table 1a. However, the end-of-1981 figure shown in this footnote may differ from the corresponding value published as part of the 1981 Annual Survey of Manufactures.

This difference at the four-digit SIC level is due primarily to the effects of industry shifts. As described in the Industry Classification of Establishments section of the Introduction, ASM noncertainty plants are allowed to shift from one industry to another in a census year; whereas, they are "frozen" in a particular industry in ASM years. Other explanations for this difference include the effects of sampling and processing errors and revisions to end-of-1981 data reported by respondents.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw

materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing," which are aggregates of figures reported by establishments in specified industries.

Specialization and coverage ratios—These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

As noted in the Introduction, an establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary

products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records do not generally provide reliable figures on net employee benefits of these types.

Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, and communication services. Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property are also included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force are also excluded.

The response coverage ratio shown in table 3d for each of the three types of purchased services listed above is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see section 3) for those ASM establishments that reported the

specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

Electric energy used for heat and power—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy and quantity of generated-less-sold electric energy were collected only on the ASM forms. The cost and quantity of purchased electric energy represent the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

Beginning- and end-of-year depreciable assets—The data encompass all fixed depreciable assets on the books of establishments at the beginning and at the end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are non-depreciable capital assets, including inventories and intangible assets, such as patent rights and royalties. Also excluded are land and depletable assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement. Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

The "not specified by kind" or n.s.k. item for expenditures on new machinery and buildings, shown in table 3d, represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories. This means that for most industries the specific categories are understated.

Retirements—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1982. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent was also requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

Rental payments—This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company, and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Depreciation charges—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

APPENDIX B.

Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 55,000 manufacturing establishments selected from a total of about 225,000 establishments. These 225,000 establishments represent all manufacturing establishments of multiunit companies and all single-unit manufacturing establishments with five employees or more tabulated in the 1977 Census of Manufactures. This mail portion is supplemented by a Social Security Administration list of new manufacturing establishments opened after 1977. The individual establishments were defined as the sampling unit for this sample. This is a change from the previous ASM sample when companies were used as the sampling unit. The implication of this change is that the probability of selection of any establishment relates only to the size of the establishment itself and is independent of the size of the company with which the establishment is affiliated. The efficiencies associated with the change to an establishment sample have made it possible to reduce the mail sample panel from 70,000 establishments in 1978 to 55,000 establishments in the current panel.

The nonmail portion of the survey includes all single-unit establishments that were tabulated with less than five employees in the 1977 Census of Manufactures. Although this portion contained approximately 125,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of other Federal agencies. This administrative record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under special conditions, which safeguard the confidentiality of both tax and census records. Estimates for data for these small establishments were developed using industry averages in conjunction with the administrative information.

The corresponding estimates for the mail and nonmail establishments were added together, along with the adjusted base-year differences as defined in Description of Estimating Procedures below. The remaining description of the survey sample relates only to the mail portion of the ASM sample.

All establishments with 250 employees or more in the 1977 census were included in the survey panel with certainty. These establishments collectively account for approximately 65 percent of the total value of shipments for manufacturing establishments in the 1977 census. Smaller establishments were sampled with probabilities ranging from 1.000 down to 0.005 in accordance with mathematical theory for optimum allocation of a sample.

The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. For establishments included in the 1977 Census of Manufactures, the measure of size depended directly upon each establishment's 1977 product class values and the

historic variability of the year-to-year shipments of each product class. Roughly equivalent measures of size were assigned to postcensus birth establishments based on their industry codes and anticipated payroll and employment.

The method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight to differences in employment, value added, and other general statistics, for these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of establishments into and out of a given sample panel without introducing a bias into the survey estimates.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1978-1981 were computed using a modified "difference estimate" formula. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1977 census published number for an item total and the linear ASM estimate of the total for 1977. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

This base-year difference was then adjusted to reflect the estimated growth at the four-digit or, in the case of product classes, five-digit based Standard Industrial Classification (SIC) level from 1977 to the year of the survey; for example, 1981. It should be noted that due to processing constraints, the growth factors lagged one year; i.e., if 1981 is the survey year, they were not based on the estimated growth from 1977 to 1981 but rather the growth from 1977 to 1980. This one-year lag had negligible effect on the estimates, particularly at the total manufacturing level where the adjusted base-year difference accounted for less than 1 percent of the estimate for total value of shipments.

These adjusted base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1978-1981. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

The 1982 sample data included in table 3d were also developed using difference estimates. However, since the universe totals for the census year (1977 or 1982) were not known, a modification of the procedure described above was necessary. For each item in table 3d, except purchased services and breakdown of expenditures for new machinery and equipment (see further description in appendix A, section 2), linear

estimates of the publication totals from the ASM mail sample were adjusted by the difference between imputed census totals and the corresponding ASM mail sample estimates of these imputed totals. These imputed totals are obtained by applying industry average ratios to control item values at the establishment level. For example, an imputed total beginning assets figure is obtained by multiplying each establishment's total value of shipments by the industry (four-digit SIC) average for the ratio of beginning assets to shipments.

Separate estimates for the nonmail establishments were not developed. However, their contribution to the publication estimates is reflected in the difference adjustment.

The method of inventory valuation percentages included in table 3c was developed using both complete census information and ASM estimates. The percentages for the four major categories (LIFO, non-LIFO, valuation method not reported, and LIFO reported without associated value and reserve) were derived from the complete census and correspond to the values included in table 3d. The percentages for the specific non-LIFO methods of valuations (FIFO, average cost, specific costs, etc.) are ratio estimates developed from the ASM in conjunction with the census universe estimate for the total of the non-LIFO methods.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. Except for table 3c, they are presented in the form of relative standard errors, the standard errors divided by the estimated values to which they refer. In table 3c, "absolute" standard errors of the estimates are presented.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

2. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total and about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors would also occur if a complete canvass were to be conducted under the same conditions as the survey.

Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

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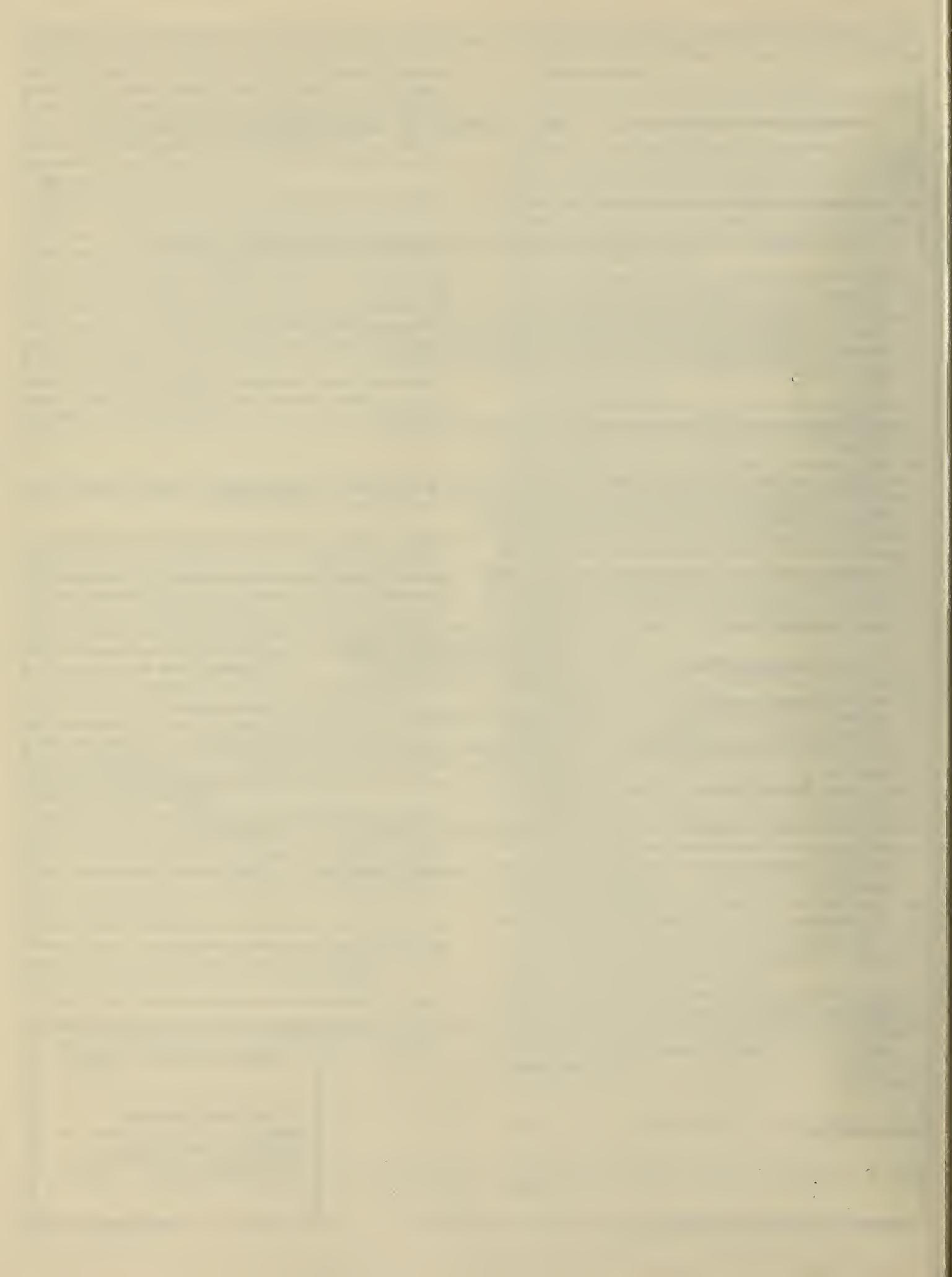
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For each industry, data on value of shipments, value added by manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment and degree of primary product specialization. Statistics are given on production of specific products and consumption of energy and various materials by industry.

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A separate report for each State and the District of Columbia presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, SMSA's, and large industrial counties and places. Comparative statistics for earlier census years are shown for the State and large SMSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics—including inventories, assets, rents, and energy costs—are presented only in statewide totals.

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